ELSEVIER

Computer Networks and ISDN Systems 30 (1998) 2397–2448

COMPUTER NETWORKS and ISDN SYSTEMS

Author Index to Volumes 11–30

Abadi, M., A. Birrell, R. Stata and **E. Wobber**, Secure Web tunneling 30 (1998) 531– 539
Abba, L., S. Giordano, G.A. Romano, S. Trumpy and **D. Vannozzi,** ASTRA: a service to access databases over the EARN network 19 (1990) 350– 355
Abdel-Wahab, H., *see* **Maly, K.J.** 27 (1994/95) 849– 860
Abrams, M., *see* **Phanouriou, C.** 29 (1996/98) 1497–1505
Abrams, M., *see* **Wooster, R.P.** 29 (1996/98) 977– 986
Ackerley, R.G., The future for quality of service modelling 20 (1990) 7– 14
Adams, J., *see* **Smith, A.** 28 (1995/96) 635– 640
Adas, A.A.A., Evaluation methodology for wide area networks 18 (1989/90) 115– 131
Addie, R., *see* **Taylor, R.** 20 (1990) 109– 114
Adie, C., Distributed multimedia information systems 25 (1993/94) S49– S57
Adler, H.-M. and **C. Sattler,** Networking activities in the GDR 19 (1990) 181– 185
Afifi, H., *see* **Bonjour, D.** 30 (1998) 1097–1110
Afonso, M., A. Santos and **V. Freitas**, QoS in Web caching 30 (1998) 2093–2103
Ageron, P., F. Besson and **P. Desfarges**, Image database management system: a server-client producer system on a local network and on the Internet 26 (1994/95) S101–S106
Aggarwal, S. and **Z. Har'el,** Simulation analysis of protocols in an integrated software environment 16 (1988/89) 197– 215
Aggarwal, S. and **K. Sabnani,** Guest editorial 18 (1989/90) 165
Agha, G.A., *see* **Varela, C.A.** 30 (1998) 573– 577
Agrawal, P., *see* **Srivastava, M.** 29 (1996/98) 2067–2090
Agrawala, A., *see* **Pointek, J.** 29 (1996/98) 831– 840
Agrawala, A.K., *see* **Radhakrishnan, S.** 28 (1995/96) 453– 469
Ahamad, M., An efficient algorithm for name resolution in computer networks 13 (1987) 301– 311
Ahamad, M., *see* **Bernabéu-Aubán, J.M.** 27 (1994/95) 1429–1445
Ahmadvand, N. and **T.D. Todd,** Dual-hop LANs using a wavelength routing cross connect 29 (1996/98) 1901–1917
Aimar, A., J. Casey, N. Drakos, I. Hannell, A. Khodabandeh, P. Palazzi, B. Rousseau and **M. Ruggier**, WebLinker, a tool for managing WWW cross-references 28 (1995/96) 99– 107
Ajmone Marsan, M., A. Bianco, C. Casetti, C.F. Chiasserini, A. Francini, R. Lo Cigno and **M. Munafò,** An integrated simulation environment for the analysis of ATM networks at multiple time scales 29 (1996/98) 2165–2185
Ajmone Marsan, M., C. Casetti and **F. Neri,** The fairness issue in the CRMA-II MAC protocol 29 (1996/98) 653– 673
Ajmone Marsan, M., Fumagalli, A., Leonardi, E., Neri, F. and **Poggiolini, P.**, Daisy: a scalable all-optical packet network with multifiber ring topology 30 (1998) 1065–1082
Akiyama, M., *see* **Mizusawa, J.-i.** 25 (1992/93) 1041–1053
Akiyama, M., *see* **Sezaki, K.** 20 (1990) 383– 389
Akkerhuis, J., *see* **Rosenberg, J.** 21 (1991) 211– 220
Akyildiz, I.F., Report on the 3rd International Conference on the Performance of Distributed Systems and Integrated Communication Networks, 10–12 September 1991, Kyoto, Japan 23 (1991/92) 317– 320
Akyildiz, I.F., I. Joe, R.M. Fujimoto and **I. Nikolaidis,** Parallel simulation of end-to-end ATM models 29 (1996/98) 617– 630
Akyildiz, I.F., J. Liebeherr and **D. Sarkar**, Bandwidth regulation of real-time traffic classes in internetworks 28 (1995/96) 855– 872
Akyildiz, I.F. and **D.A. Levine**, A collision-free MAC protocol for optical star LANs 28 (1995/96) 371– 390

Alaettinoğlu, C., *see* **Govindan, R.** 30 (1998) 1157–1174
Albanese, C.S., J.A. Bannister, G. Polyzos, M. Veeraraghavan and **M. Zitterbart,** Editorial Introduction (to special issue on Signalling and Management of ATM Networks) 29 (1996/98) 535– 537
Alexandre, T.J., A Java-based platform for intellectual property protection on the World Wide Web 30 (1998) 591– 593
Alexandre, T.J., 3D visualization of multimedia content on the World Wide Web 30 (1998) 594– 596
Algayres, B., V. Coelho, L. Doldi, H. Garavel, Y. Lejeune and **C. Rodríguez,** VESAR: a pragmatic approach to formal specification and verification 25 (1992/93) 779– 790
Ali, M., *see* **Elhakeem, A.K.** 11 (1986) 219– 241
Allen, M., Are we yet cyborgs? University students and the practical consequences of human-machine subjectivity 30 (1998) 597– 600
Allen, R., The Web: interactive and multimedia education 30 (1998) 1717–1727
Allen, R., *see* **England, P.** 28 (1995/96) 1547–1558
Allison, L., *see* **Pringle, G.** 30 (1998) 369– 377
Allocchio, C. and **A. Ghiselli,** The INFN GIVEME 987 gateway 19 (1990) 255– 260
Allocchio, C., *see* **Bonetti, P.** 27 (1994/95) 461– 469
Almeida, J. and **P. Cao**, Measuring proxy performance with the Wisconsin Proxy Benchmark 30 (1998) 2179–2192
Almeida, V.F., M.G. Cesario, R.C. Fonseca, W. Meira Jr. and **C.D. Murta**, The influence of geographical and cultural issues on the cache proxy server workload 30 (1998) 601– 603
Almeroth, K.C. and **M.H. Ammar**, The Interactive Multimedia Jukebox (IMJ): a new paradigm for the on-demand delivery of audio/video 30 (1998) 431– 441
Almes, G.T., Engineering trans-oceanic 44 Mb/s TCP/IP networks 25 (1993/94) S123–S130
Almesberger, W., Chandran-Wadia, L., Giordano, S., Le Boudec, J.-Y. and **Schmid, R.**, Using quality of service can be simple: Arequipa with renegotiable ATM connections 30 (1998) 2327–2336
Altaber, J., B. Carpenter, S. Cannon, D. Davids, M. Hine, C. Isnard, J.M. Jouanigot, S. Olofsson, B. Segal, N. Stheneur, P.L. Forsström, M. Nordberg, S. Simonen, M. Voipio, G. Barreira, P. Veiga, S. Dedoussis, C. Touramanis, O. Koudelka and **K. Sweeney,** CHEOPS: really using a satellite 23 (1991/92) 139– 142
Altis, K., *see* **Luotonen, A.** 27 (1994/95) 147– 154
Alvestrand, H.T., Electronic mail routing in a heterogeneous world 25 (1992/93) 535– 539
Alvisi, G., *see* **Stevens, R.J.** 14 (1987) 123– 135
Amato, G., F. Rabitti and **P. Savino**, Multimedia document search on the Web 30 (1998) 604– 606
Amer, P.D. and **D. New,** Protocol visualization in Estelle 25 (1992/93) 741– 760
Amer, P.D., *see* **Marasli, R.** 29 (1996/98) 675– 699
Ammar, M.H., Teletext-like information delivery using broadcast polling 12 (1986) 107– 115
Ammar, M.H., V.O.K. Li and **M. Ulema,** Broadband ISDN: Standards, switches, and traffic management 27 (1994/95) 1– 3
Ammar, M.H., *see* **Almeroth, K.C.** 30 (1998) 431– 441
Ammar, M.H., *see* **Bernabéu-Aubán, J.M.** 27 (1994/95) 1429–1445
Ammar, M.H., *see* **Clark, R.J.** 29 (1996/98) 841– 858
An, L., N. Ansari and **A. Arulambalam,** TCP/IP traffic over ATM networks with FMMRA ABR flow and congestion control 29 (1996/98) 2091–2102
Anagnostou, M.E., M.E. Theologou and **E.N. Protonotarios,** Cell insertion ratio analysis in asynchronous transfer mode networks 24 (1992) 335– 344
Ananda, A.L., *see* **Srinivasan, B.** 11 (1986) 383– 389
Anderson, B.D.O., *see* **Frater, M.R.** 20 (1990) 315– 321
Anderson, S. and **R. Garvin,** Sessioneer: flexible session level authentication with off the shelf servers and clients 27 (1994/95) 1047–1053
Anderson, T.E., *see* **McKeown, N.** 30 (1998) 2309–2326
Andrews, K., F. Kappe and **H. Maurer,** Serving information to the Web with Hyper-G 27 (1994/95) 919– 926
Andries, R.N., *see* **Gruszecki, M.** 20 (1990) 65– 74
Ansari, N., *see* **An, L.** 29 (1996/98) 2091–2102
Aoki, P.M., *see* **Woodruff, A.** 28 (1995/96) 963– 980
Apostolopoulos, N., A. Geukes and **S. Zimmermann**, DIALECT – Network-based digital interactive lectures 28 (1995/96) 1873–1886
Appelt, W., E. Hinrichs and **G. Woetzel**, Effectiveness and efficiency: the need for tailorable user interfaces on the Web 30 (1998) 499– 508
Ardö, A. and **S. Lundberg**, A regional distributed WWW search and indexing service – the DESIRE way 30 (1998) 173– 183

Arocena, G.O., Mendelzon, A.O. and **Mihaila, G.A.**, Applications of a Web query language 29 (1996/98) 1305–1316
Arulambalam, A., *see* **An, L.** 29 (1996/98) 2091–2102
Ash, G.R., *see* **Kashper, A.N.** 20 (1990) 81– 88
Ash, J., *see* **Green, D.G.** 30 (1998) 636– 637
Ashby, P., FTAM interoperability: meeting the needs of the research community 25 (1992/93) 531– 534
Ashman, H. and **H. Davis**, Missing the 404: link integrity on the World Wide Web 30 (1998) 761– 762
Ates, A.F. and **B. Sarikaya,** Test sequence generation and timed testing 29 (1996/98) 107– 131
Atiquzzaman, M., *see* **Zhou, B.** 28 (1995/96) 1809–1829
Atlasis, A.F. and **Vasilakosi, A.V.**, LB-SELA: rate-based access control for ATM networks 30 (1998) 963– 980
Atmaca, T., G. Pujolle and **F. Sha,** Performance analysis of an access control strategy in integrated networks 24 (1992) 421– 434
Au, A.S.F., *see* **Chan, S.C.F.** 30 (1998) 1853–1863
Auge, E. and **P. Brun,** Distributed management of an MHS environment 25 (1992/93) 577– 582
Awdeh, R.Y. und **H.T. Mouftah,** Survey of ATM switch architectures 27 (1994/95) 1567–1613
Aykut, M., *see* **Bilgen, S.** 14 (1987) 305– 309
Azcorra, A., *see* **Mañas, J.A.** 25 (1992/93) 815– 839

Babarit, L., *see* **Low, C.** 30 (1998) 407– 415
Babski, C., *see* **Thalmann, D.** 29 (1996/98) 1601–1610
Bachiochi, D., Berstene, M., Chouinard, E., Conlan, N., Danchak, M., Furey, T., Neligon, C. and **Way, D.,** Usability studies and designing navigational aids for the World Wide Web 29 (1996/98) 1489–1496
Bae, J.J., *see* **Suda, T.** 18 (1989/90) 275– 292
Bae, J.-S., *see* **Shin, M.-K.** 30 (1998) 685– 687
Baentsch, M., G. Molter and **P. Sturm,** Web-Make: Integrating distributed software development in a structure-enhanced Web 27 (1994/95) 789– 800
Baentsch, M., G. Molter and **P. Sturm**, Introducing application-level replication and naming into today's Web 28 (1995/96) 921– 930
Baert, P., C. Cuypers and **J. De Schampheleire,** The silent force of the screen. A research note on the impact of microelectronics on work autonomy among clerical workers in public administration 14 (1987) 267– 270
Baerten, H. and **Van Reeth, F.**, Using VRML and JAVA to visualize 3D algorithms in computer graphics education 30 (1998) 1833–1839
Bahaa-El-Din, W.H. and **M.T. Liu,** Register-insertion: A protocol for the next generation of ring local-area networks 24 (1992) 349– 366
Baker, N., *see* **Sember, P.P.** 30 (1998) 682– 684
Baker, T., I. Brüning, L. Klein and **M. Lenz**, Starting a Web site: issues of quality control 26 (1994/95) S55– S61
Bakonyi, P. and **L. Csaba,** Network for the Hungarian R&D community 17 (1989) 332– 336
Bakonyi, P., *see* **Szabó, C.** 19 (1990) 367– 372
Baldick, R., *see* **De Veciana, G.** 30 (1998) 951– 962
Ball, E., *see* **Kummer, P.** 12 (1986) 81– 87
Ball, E., *see* **Linge, N.** 13 (1987) 323– 332
Ball, S., XML and the desperate Tcl hacker 30 (1998) 713– 715
Ball, S., *see* **Thistlewaite, P.** 28 (1995/96) 1355–1364
Ball, T., *see* **Douglis, F.** 28 (1995/96) 1335–1344
Banâtre, M., Issarny, V., Leleu, F. and **Charpiot, B.,** Providing quality of service over the Web: a newpaper-based approach 29 (1996/98) 1457–1465
Banerjee, S. and **B. Mukherjee,** Incorporating continuation-of-message information, slot reuse, and fairness in DQDB networks 24 (1992) 153– 169
Bannister, J.A., L. Fratta and **M. Gerla,** Designing metropolitan area networks for high-performance applications 20 (1990) 223– 230
Bannister, J.A., *see* **Albanese, C.S.** 29 (1996/98) 535– 537
Bannon, D.R. and **N.J. Hoogenraad**, Targeting next year's students 30 (1998) 716– 717
Bär, U., *see* **Schneider, J.M.** 25 (1992/93) 43– 61
Baratz, A.E. and **J.M. Jaffe,** Establishing virtual circuits in large computer networks 12 (1986) 27– 37
Baratz, A.E., *see* **Jaffe, J.M.** 12 (1986) 147– 158
Barber, D., *see* **Kalin, T.** 25 (1992/93) 227– 239
Barbieri, K., *see* **Dwyer, D.** 27 (1994/95) 897– 904
Barker, P., X.500 Index DSAs and scaling issues for an indexed white pages directory service 28 (1995/96) 551– 562
Barnes, J., D. Ginsburg, D. Newson and **D. Pratt**, IP multicast of real-time MPEG over ATM 28 (1995/96) 1929–1937
Barney, G.C., Session on PTT bearer services, X.25, performance and reliability 13 (1987) 223
Barreira, G., *see* **Altaber, J.** 23 (1991/92) 139– 142
Barrett, R. and **P.P. Maglio**, Intermediaries: new places for producing and manipulating Web content 30 (1998) 509– 518

Barrett, R., *see* **Underwood, G.M.** 30 (1998) 33– 41
Barta, R.A. and **M.W. Schranz**, JESSICA: an object-oriented hypermedia publishing processor 30 (1998) 281– 290
Basevi, E., Some remarks on videotex interaction. How to write for a new reader. A practical research 14 (1987) 179– 185
Basu, C., *see* **Shklar, L.** 27 (1994/95) 939– 951
Basu, K., Open network architecture and information services: teletraffic challenges 20 (1990) 101– 107
Bateman, J., COST Project 214: methods for the planning and evaluation of multi-service networks 11 (1986) 311– 312
Bathe, C., *see* **Nelson, J.** 21 (1991) 175– 185
Bathelt, M., Gall, U., Hindel, B. and **Kurzke, C.,** Accessing embedded systems via WWW: the ProWeb toolset 29 (1996/98) 1065–1073
Bathelt, M., *see* **Kurzke, C.** 30 (1998) 654– 655
Batsalle, D., *see* **Raggett, D.** 30 (1998) 679– 681
Bauerfeld, W., A tutorial on network gateways and interworking of LANs and WANs 13 (1987) 187– 193
Bauerfeld, W., Session on the requirements of international user groups 13 (1987) 227
Bauerfeld, W. and **P. Holleczek,** Global connectivity 17 (1989) 300– 304
Bauerfeld, W. and **H. Westbrock,** Multimedia communication with high-speed protocols 23 (1991/92) 143– 151
Bauerfeld, W., *see* **Cornillie-Braun, A.** 16 (1988/89) 24– 30
Baumgarten, T., *see* **Holleczek, P.** 25 (1992/93) 351– 356
Baxter, D.C., *see* **Suda, T.** 18 (1989/90) 225– 292
Beale, J.S., COSINE implementation phase: COSINE project officer's view 16 (1988/89) 116– 118
Bechmann, D., Y. Bertrand and **S. Thery,** Continuous free form deformation 29 (1996/98) 1715–1725
Beck, M. and **T. Moore**, The Internet2 Distributed Storage Infrastructure project: an architecture for Internet content channels 30 (1998) 2141–2148
Beckett, D., Combined log system 27 (1994/95) 1089–1096
Beckett, D., *see* **Valkenburg, P.** 30 (1998) 1571–1578
Beckett, D.J., 30% accessible – a survey of the UK Wide Web 29 (1996/98) 1367–1375
Behringer, M.H., Technical options for a European high-speed backbone 28 (1995/96) 575– 581
Beijert, J.-H., *see* **Ter Stal, W.G.** 30 (1998) 1237–1248
Belina, F. and **D. Hogrefe,** The CCITT-specification and description language SDL 16 (1988/89) 311– 341
Belov, S.D., S.V. Bredikhin, S.P. Kovalyov, S.A. Kulagin, S.L. Musher, N.G. Scherbakova and **I.V. Shabalnikov**, The emerging Internet landscape in Siberia 30 (1998) 1657–1662
Belovich, S.G. and **V.K. Konangi,** A linear-time approximation method for computing the reliability of a network 21 (1991) 121– 127
Belsnes, B., *see* **M**
Beltrami, C.A., *see* **Della Mea, V.** 28 (1995/96) 1085–1094
Belyaev, S.T., *see* **Nadreau, J.P.** 26 (1994/95) S193–S199
Bem, D.J., NASK—Research and academic computer network in Poland 25 (1992/93) 431– 437
Bendig, M., *see* **Vizine-Goetz, D.** 27 (1994/95) 985–1001
Benford, S., Building group communication on OSI 23 (1991/92) 87– 90
Benford, S. and **J. Palme,** A standard for OSI group communication 25 (1992/93) 933– 946
Benford, S., D. Snowdon, C. Brown, G. Reynard and **R. Ingram,** Visualising and populating the Web: collaborative virtual environments for browsing, searching and inhabiting Webspace 29 (1996/98) 1751–1761
Benford, S., *see* **Greenhalgh, C.** 30 (1998) 1677–1685
Ben-Othman, J., *see* **Vèque, V.** 29 (1996/98) 2187–2200
Ben-Shaul, I. and **Ifergan, S.,** WebRule: an event-based framework for active collaboration among Web servers 29 (1996/98) 1029–1039
Ben Shaul, I.Z., *see* **Maarek, Y.S.** 28 (1995/96) 1321–1333
Ben-Shaul, I.Z., *see* **Maarek, Y.S.** 29 (1996/98) 1269–1279
Bentley, R., *see* **Trevor, J.** 28 (1995/96) 1053–1062
Benton, L., *see* **Green, D.G.** 30 (1998) 636– 637
Berenblit, C., *see* **Forestier, M.** 14 (1987) 167– 177
Berger, A., Privacy protection for public directory services 30 (1998) 1521–1529
Berger, A.W., Naldi, M., De Giovanni, L. and **Villén-Altamirano, M.,** Standardization of traffic measurements and models for broadband networks: open issues 30 (1998) 1327–1340
Berleant, D., *see* **Simonson, J.** 30 (1998) 337– 345
Bernabei, F., L. Gratta and **M. Listanti**, Throughput analysis of Multihop ShuffleNets in a hot spot traffic scenario: impact of routing strategies 28 (1995/96) 743– 772
Bernabéu-Aubán, J.M., M.H. Ammar and **M. Ahamad,** Optimizing a generalized polling protocol for resource finding over a multiple access channel 27 (1994/95) 1429–1445
Berners-Lee, T.J., R. Cailliau and **J.-F. Groff,** The world-wide web 25 (1992/93) 454– 459
Berrino, C. and **D. Manuello,** Y-NET —The Esprit pan-European community OSI network 25 (1992/93) 554– 560

Berry, G. and **G. Gonthier,** Incremental development of an HDLC entity in Esterel 22 (1991) 35– 49
Berry, L., Graph theoretic models for multicast communications 20 (1990) 95– 99
Berstene, M., *see* **Bachiochi, D.,** 29 (1996/98) 1489–1496
Bertrand, Y., *see* **Bechmann, D.** 29 (1996/98) 1715–1725
Berzsenyi, M., I. Vajk and **H. Zhang,** Design and implementation of a video on-demand system 30 (1998) 1467–1473
Beshai, M.E., L.A. Garrett and **I.R. Stewart,** Transposed switching of multi-bit-rate traffic 20 (1990) 333– 341
Bessière, C., J.L. Léonhardt and **R. Zeiliger,** Multimedia authoring tools: Atelier ORGUE 23 (1991/92) 157– 161
Besson, F., *see* **Ageron, P.** 26 (1994/95) S101–S106
Bharat, K. and **A. Broder,** A technique for measuring the relative size and overlap of public Web search engines 30 (1998) 379– 388
Bharat, K., A. Broder, M. Henzinger, P. Kumar and **S. Venkatasubramanian,** The Connectivity Server: fast access to linkage information on the Web 30 (1998) 469– 477
Bharat, K., *see* **Miller, R.C.** 30 (1998) 119– 130
Bhargava, B., E. Mafla and **J. Riedl,** Communication in the Raid distributed database system 21 (1991) 81– 92
Bianchi, G. and **A. Pattavina,** Architecture and performance of nonblocking ATM switches with shared internal queueing 28 (1995/96) 835– 853
Bianco, A., *see* **Ajmone Marsan, M.** 29 (1996/98) 2165–2185
Bickerstaff, M., *see* **Hogan, M.** 29 (1996/98) 595– 610
Bickmore, T.W. and **Schilit, B.N.,** Digestor: device-independent access to the World Wide Web 29 (1996/98) 1075–1082
Bieber, J., PACE - a European programme of advanced continuing education 13 (1987) 241– 243
Bieber, M., Will hypertext become the Web's missing link? 30 (1998) 754– 756
Bieber, M., *see* **Vitali, F.** 29 (1996/98) 1115–1128
Bier, E.A., *see* **Crespo, A.** 28 (1995/96) 1291–1306
Bier, E.A., *see* **Crespo, A.** 29 (1996/98) 1507–1517
Biersack, E.W., A systematic approach for constructing gateway 18 (1989/90) 79– 95
Biersack, E.W. and **D.C. Feldmeier,** A timer-based connection management protocol with synchronized clocks and its verification 25 (1992/93) 1303–1319
Biersack, E.W., *see* **Rodriguez, P.** 30 (1998) 2223–2243
Bilgen, S., M. Aykut and **O. Ekinci,** A forms class virtual terminal service project 14 (1987) 305– 309
Bilotta, E., M. Fiorito, D. Iovane and **P. Pantano,** An educational environment using WWW 27 (1994/95) 905– 909
Binding, C., *see* **Karjoth, G.** 25 (1992/93) 853– 874
Binst, P. van, Pan-European high-speed networking 16 (1988/89) 124– 128
Biorci, G. and **S. Trumpy,** The UNESCO African network project 19 (1990) 189– 190
Birch, J., L.G. Christensen and **M. Skov,** A programmable 800 Mbit/s CRC check/generator unit for LANs and MANs 24 (1992) 109– 118
Birk, Y. and **F.A. Tobagi,** "Supernodes" in networks employing spread spectrum with code-division multiple access 15 (1988) 341– 357
Birrell, A., *see* **Abadi, M.** 30 (1998) 531– 539
Bisdikian, C., A performance analysis of the IEEE 802.6 (DQDB) subnetwork with the bandwidth balancing mechanism 24 (1992) 367– 385
Bisdikian, C., A queueing model with applications to bridges and the DQDB (IEEE 802.6) MAN 25 (1992/93) 1279–1289
Bisdikian, C., Performance analysis of single-stage, output buffer packet switches with independent batch arrivals 27 (1994/95) 627– 652
Bishop, A.P., Electronic networking for engineers: research from a user perspective 25 (1992/93) 344– 350
Bitmead, R.R., *see* **Frater, M.R.** 20 (1990) 315– 321
Bitzer, D.L., *see* **McAllister, D.F.** 30 (1998) 1975–1980
Black, W., Session on full screen services 13 (1987) 225
Black, W., File access and serving in an OSI environment 17 (1989) 294– 299
Blair, D., *see* **Meyer, T.** 28 (1995/96) 77– 84
Blair, G.S., L. Blair and **J.B. Stefani,** A specification architecture for multimedia systems in Open Distributed Processing 29 (1996/98) 473– 500
Blair, G.S., *see* **Coulson, G.** 25 (1992/93) 305– 323
Blair, G.S., *see* **Coulson, G.** 27 (1994/95) 1231–1246
Blair, G.S., *see* **Macartney, A.J.** 25 (1992/93) 145– 157
Blair, L., *see* **Blair, G.S.** 29 (1996/98) 473– 500
Blokzijl, R., RIPE: IP coordination in Europe 19 (1990) 173– 176
Blumer, T.P., *see* **Sidhu, D.P.** 18 (1989/90) 221– 238
Boel, R.K., A feedback interpretation of some communication network protocols 20 (1990) 179– 188
Bogen, M., M. Borowski, G. Hansen and **M. Lenz,** German Government online 30 (1998) 607– 609
Bogen, M., G. Hansen and **M. Lenz,** W3Gate – A Web access for outsiders 28 (1995/96) 1979–1990
Bogen, M.A., H.-L. Hausen and **R. Worst,** Handling of QoS characteristics 26 (1994/95) S107–S118
Bogen, M., M. Lenz and **S. Zier,** Deutsche Welle: On the air 28 (1995/96) 1187–1196

Böhm, M., W. Deiters, M. Friedrich, F. Lindert and **W. Schulze**, Workflow management as teleservice 28 (1995/96) 1961–1969
Böker, B., *see* **Fromme, M.** 30 (1998) 1457–1465
Bolger, T.E., The controversies surrounding ISDN 15 (1988) 27– 30
Bolla, R. and **F. Davoli,** Dynamic hierarchical control of resource allocation in an integrated services broadband network 25 (1992/93) 1079–1087
Bolognesi, T. and **E. Brinksma,** Introduction to the ISO specification language LOTOS 14 (1987) 25– 59
Bolognesi, T., O. Hagsand, D. Latella and **B. Pehrson,** The definition of a graphical G-LOTOS editor using the meta-tool LOGGIE 22 (1991) 61– 77
Bolot, J.-C., Cost-quality tradeoffs in the Internet 28 (1995/96) 645– 651
Bolot, J.-C. and **P. Hoschka**, Performance engineering of the World Wide Web: Application to dimensioning and cache design 28 (1995/96) 1397–1405
Bondavalli, A., M. Conti, E. Gregori, L. Lenzini and **L. Strigini,** MAC protocols for high-speed MANs: Performance comparisons for a family of Fasnet-based protocols 18 (1989/90) 97– 113
Bondavalli, A., L. Strigini and **M. Sereno,** Destination stripping dual ring: a new protocol for MANs 24 (1992) 15– 32
Bonetti, P., C. Allocchio and **A. Ghiselli,** Distribution of RFC 1327 mapping rules via the Internet DNS: the INFNet distributed gateway system 27 (1994/95) 461– 469
Bonhomme, S. and **C. Roisin**, Interactively restructuring HTML documents 28 (1995/96) 1075–1084
Bonjour, D., Elloumi, O. and **Afifi, H.**, Internet applications over native ATM 30 (1998) 1097–1110
Bonkowski, C., M. Borowski, G. Hansen and **M. Lenz**, Online information services for the German government's audiences 30 (1998) 1637–1647
Borgonovo, F. and **L. Fratta,** Deflection networks: architectures for metropolitan and wide area networks 24 (1992) 171– 183
Bormann, C., *see* **Bormann, U.** 21 (1991) 149– 163
Bormann, U. and **C. Bormann,** Standards for open document processing: current state and future developments 21 (1991) 149– 163
Borowski, M., *see* **Bogen, M.** 30 (1998) 607– 609
Borowski, M., *see* **Bonkowski, C.** 30 (1998) 1637–1647
Bosik, B.S. and **M.Ü. Uyar,** Finite state machine based formal methods in protocol conformance testing: from theory to implementation 22 (1991) 7– 33
Boston, A.N. and **D.R.B. Stockwell**, Interactive species distribution reporting, mapping and modelling using the World Wide Web 28 (1995/96) 231– 238
Bostwick, W.E., HPCC. An overview of the U.S. High Performance Computing and Communications initiative with focus on the National Research and Education Network 23 (1991/92) 37– 39
Bourdin, H., Ferreira, A. and **Marcus, K.**, A performance comparison between graph and hypergraph topologies for passive star WDM lightwave networks 30 (1998) 805
Boutaba, R., *see* **Mehaoua, A.** 29 (1996/98) 2021–2037
Bovenga, P., Management of network services 13 (1987) 155– 160
Bovio, D., The regionalization of EARN 25 (1992/93) 546– 553
Bowen, D., Open distributed processing 23 (1991/92) 195– 201
Bowers, N., Weblint: Quality assurance for the World Wide Web 28 (1995/96) 1283–1290
Bowman, C.M., P.B. Danzig, D.R. Hardy, U. Manber and **M.F. Schwartz**, The Harvest information discovery and access system 28 (1995/96) 119– 126
Boyer, P.E. and **D.P. Tranchier,** A reservation principle with applications to the ATM traffic control 24 (1992) 321– 334
Brachman, B.J. and **S.T. Chanson,** A simulation study of application level message transfer using message streams 19 (1990) 79– 94
Bračun, F., *see* **Jerman-Blažič, B.** 28 (1995/96) 709– 717
Bradlow, H.S., Performance measures for real-time continuous bit-stream oriented services: application to packet reassembly 20 (1990) 15– 26
Bradshaw, R., *see* **Crowcroft, J.** 23 (1991/92) 177– 184
Braid, A., From Babel to EDIL: the evolution of a standard for document delivery 27 (1994/95) 367– 374
Braun, H.-W. and **K.C. Claffy**, Web traffic characterization: an assessment of the impact of caching documents from NCSA's web server 28 (1995/96) 37– 51
Braverman, A., *see* **LaLiberte, D.** 27 (1994/95) 911– 918
Bray, T., Measuring the Web 28 (1995/96) 993–1005
Brázio, J.M., *see* **Sobrinho, J.L.** 28 (1995/96) 283– 305
Breault, R., *see* **Phung, V.P.T.** 24 (1992) 145– 152
Bredereke, J., *see* **Gotzhein, R.** 30 (1998) 863– 864

Bredikhin, S.V., *see* **Belov, S.D.** 30 (1998) 1657–1662
Breiter, F., S. Kühn, E. Robles and **A. Schill**, The usage of advance reservation mechanisms in distributed multimedia applications 30 (1998) 1627–1635
Breiter, F., *see* **Schill, A.** 28 (1995/96) 1915–1927
Brewer, E., *see* **Woodruff, A.** 28 (1995/96) 963– 980
Brewer, E.A., *see* **Fox, A.** 28 (1995/96) 1445–1456
Brewer, J., Web accessibility: technical and business challenges, implementation successes 30 (1998) 757– 758
Brewer, J., Accessibility and universal design: advantages and impact for business, government and developers 30 (1998) 759– 760
Brill, M. and **U. Gramm,** MMS: MAP application services for the manufacturing industry 21 (1991) 357– 380
Brin, S. and **L. Page**, The anatomy of a large-scale hypertextual Web search engine 30 (1998) 107– 117
Brinksma, E., Katoen, J.-P., Langerak, R. and **Latella, D.**, Partial order models for quantitative extensions of LOTOS 30 (1998) 925– 950
Brinksma, E., G. Scollo and **C.A. Vissers,** Introduction to the PSTV-IX 22 (1991) 1– 6
Brinksma, E., *see* **Bolognesi, T.** 14 (1987) 25– 59
Brissinck, W., *see* **Steenhaut, K.** 29 (1996/98) 539– 554
Bristow, P. and **M. White**, A publishing system to support secondary school teaching and learning 30 (1998) 610– 611
Bristow, P., *see* **Green, D.G.** 30 (1998) 636– 637
Bræk, R., SDL Basics 28 (1995/96) 1585–1602
Brodbeck, D., *see* **Chalmers, M.** 30 (1998) 359– 367
Broder, A., *see* **Bharat, K.** 30 (1998) 379– 388
Broder, A., *see* **Bharat, K.** 30 (1998) 469– 477
Broder, A.Z., Glassman, S.C., Manasse, M.S. and **Zweig, G.,** Syntactic clustering of the Web 29 (1996/98) 1157–1166
Brooks, C., *see* **Schickler, M.A.** 28 (1995/96) 1063–1074
Brown, C., *see* **Benford, S.** 29 (1996/98) 1751–1761
Brown, D.C., *see* **Wills, C.E.** 30 (1998) 2283–2291
Brown, H., *see* **Cole, F.** 21 (1991) 221– 230
Brown, M.H. and **M.A. Najork**, Distributed active objects 28 (1995/96) 1037–1052
Brown, M.H. and **R. Raisamo,** JCAT: collaborative active textbooks using Java 29 (1996/98) 1577–1586
Brown, M.H. and **R.A. Shillner,** DeckScape: an experimental Web browser 27 (1994/95) 1097–1104
Brown, P.J.C., A fast algorithm for selective refinement of terrain meshes 29 (1996/98) 1587–1599
Brown, T.X., *see* **Doganata, Y.N.** 20 (1990) 455– 464
Brownstein, C., US National Research and education network 19 (1990) 323– 325
Bruijning, J. and **SPECS Consortium**, Evaluation and integration of specification languages 13 (1987) 75– 89
Brun, P., *see* **Auge, E.** 25 (1992/93) 577– 582
Brunato, D., *see* **Della Mea, V.** 28 (1995/96) 1085–1094
Bruneel, H., Exact derivation of transient behavior for buffers with random output interruptions 22 (1991) 277– 285
Bruneel, H., Packet delay and queue length for statistical multiplexers with low-speed access lines 25 (1992/93) 1267–1277
Bruneel, H., J. De Vriendt and **C. Ysebaert,** Receiver buffer behavior for the Selective-Repeat ARQ protocol 19 (1990) 129– 142
Bruneel, H. and **S. Wittevrongel**, An approximate analytical technique for the performance evaluation of ATM switching elements with burst routing 28 (1995/96) 325– 343
Bruneel, H., *see* **Steyaert, B.** 25 (1992/93) 1227–1241
Brüning, I., *see* **Baker, T.** 26 (1994/95) S55– S61
Brusilovsky, P., J. Eklund and **E. Schwarz**, Web-based education for all: a tool for development adaptive courseware 30 (1998) 291– 300
Brusilovsky, S., *see* **Sokolov, N.** 25 (1992/93) 1165–1173
Bryant, P., The migration of EARN to use ISO protocols 13 (1987) 201– 203
Buddhikot, M.M., G.M. Parulkar and **J.R. Cox, Jr.,** Design of a large scale multimedia storage server 27 (1994/95) 503– 517
Budkowski, S., Estelle development toolset (EDT) 25 (1992/93) 63– 82
Budkowski, S. and **P. Dembinski,** An introduction to Estelle: a specification language for distributed systems 14 (1987) 3– 23
Bugaj, S.V., *see* **Seligmann, D.D.** 29 (1996/98) 1519–1530
Bullock, A., *see* **Greenhalgh, C.** 30 (1998) 1677–1685
Bulterman, D.C.A., L. Hardman, J. Jansen, K.S. Mullender and **L. Rutledge**, GRiNS: A Graphical Interface for creating and playing SMIL documents 30 (1998) 519– 529
Burden, P., *see* **Jenkins, C.** 30 (1998) 646– 648
Burg, F.M. and **P. Puges,** X.25: It's come a long way 16 (1988/89) 395– 404
Bürger, U., A flexible two-phase commit protocol 17 (1989) 175– 185
Burgin, J., Broadband ISDN resource management 20 (1990) 323– 331
Bürkle, M., Broadband services 16 (1988/89) 135– 136
Burren, J.W., High speed communications — a tutorial on the jargon and technologies 23 (1991/92) 119– 124
Burrill, V.A., *see* **Dobson, S.A.** 27 (1994/95) 1009–1015
Butler, M., *see* **Katz, E.D.** 27 (1994/95) 155– 164

Byers, D., Full-text indexing of non-textual resources 30 (1998) 141– 148

Caffrey, L., EPHOS: towards a European GOSIP 19 (1990) 265– 269

Cahoon, C., G. Dunn, M. McCarron and **G. Munroe,** Environment to inspire network users (ETINU). The development of a complete online support system 29 (1996/98) 1777–1785

Cailliau, R., *see* **Berners-Lee, T.J.** 25 (1992/93) 454– 459

Caldwell, L.G., Workstation to internet; problems, solutions and challenges 23 (1991/92) 25– 28

Callon, R.W., Integrated routing for multi-protocol TCP/IP-OSI environments 23 (1991/92) 185– 190

Campbell, J.K., S. Hurley, S.B. Jones and **N.M. Stephens,** Constructing educational courseware using NCSA Mosaic and the World-Wide Web 27 (1994/95) 887– 896

Campbell, L., *see* **Whittington, D.** 30 (1998) 707– 709

Campbell-Grant, I., *see* **Nelson, J.** 21 (1991) 175– 185

Caneschi, F. and **E. Merelli,** An architecture for an ASN.1 encoder / decoder 14 (1987) 297– 303

Cannon, S., *see* **Altaber, J.** 23 (1991/92) 139– 142

Cao, L., M.-K. Leong, Y. Lu and **H.-B. Low**, Searching heterogeneous multilingual bibliographic sources 30 (1998) 612– 615

Cao, P., *see* **Almeida, J.** 30 (1998) 2179–2192

Cao, X.-R., *see* **Iun, D.P.C.** 30 (1998) 2337–2347

Capellmann, C., *see* **Kimbler, K.** 30 (1998) 1363–1387

Capin, T., *see* **Thalmann, D.** 29 (1996/98) 1601–1610

Capps, M., B. Ladd and **D. Stotts**, Enhanced graph models in the Web: Multi-client, multi-head, multi-tail browsing 28 (1995/96) 1105–1112

Cargille, C.A., R.A. Hagens, A. Hansen and **L.H. Landweber,** The Internet X.400 pilot project 23 (1991/92) 97– 100

Carpenter, B. and **J. Joosten,** The CERN FDDI pilot project 19 (1990) 304– 307

Carpenter, B., *see* **Altaber, J.** 23 (1991/92) 139– 142

Carpenter, B.E., COSINE implementation phase: the view from a major site 16 (1988/89) 121– 122

Carpenter, B.E., Is OSI too late? 17 (1989) 284– 286

Carr, L., H.C. Davis, D. DeRoure and **W. Hall**, Application-independent link processing 30 (1998) 616– 618

Carr, L., G. Hill, D. De Roure, W. Hall and **H. Davis**, Open information services 28 (1995/96) 1027–1036

Carral Pelayo, J.A., *see* **Ruiz Piñar, F.J.** 30 (1998) 1543–1549

Carrière, S.J. and **Kazman, R.,** Web-Query: searching and visualizing the Web through connectivity 29 (1996/98) 1257–1267

Casetti, C., *see* **Ajmone Marsan, M.** 29 (1996/98) 653– 673

Casetti, C., *see* **Ajmone Marsan, M.** 29 (1996/98) 2165–2185

Casey, J., *see* **Aimar, A.** 28 (1995/96) 99– 107

Casey, L., *see* **Pachl, J.** 13 (1987) 313– 321

Cass, D.E., *see* **Rose, M.T.** 12 (1986) 159– 173

Castelli, E., The INFN and the INFNet 17 (1989) 252– 255

Catledge, L.D. and **J.E. Pitkow,** Characterizing browsing strategies in the World-Wide Web 27 (1994/95) 1065–1073

Caubet, R., *see* **Kardassevitch, C.** 30 (1998) 1961–1974

Caughey, S.J., Ingham, D.B. and **Little, M.C.,** Flexible open caching for the Web 29 (1996/98) 1007–1017

Caughey, S., D. Ingham and **P. Watson**, Metabroker: a generic broker for electronic commerce 30 (1998) 619– 620

Caughey, S., *see* **Ingham, D.** 28 (1995/96) 1255–1268

Caughey, S.J., *see* **Ingham, D.B.** 29 (1996/98) 1405–1416

Caughey, S.J., *see* **Little, M.C.** 29 (1996/98) 1281–1290

Cavalli, A.R., B.-M. Chin and **K. Chon**, Testing methods for SDL systems 28 (1995/96) 1669–1683

Cavalli, A.R., J.P. Favreau and **M. Phalippou,** Standardization of formal methods in conformance testing of communication protocols 29 (1996/98) 3– 14

Cavalli, A.R., *see* **Rafiq, O.** 29 (1996/98) 1– 2

Ćećez-Kecmanović, D., Organizational knowledge systems: an investigation on knowledge communication uncertainty 14 (1987) 221– 230

Cerf, V., The internet activities board 17 (1989) 337– 341

Cesario, M.G., *see* **Almeida, V.F.** 30 (1998) 601– 603

Chakrabarti, S., B. Dom, P. Raghavan, S. Rajagopalan, D. Gibson and **J. Kleinberg**, Automatic resource compilation by analyzing hyperlink structure and associated text 30 (1998) 65– 74

Chalmers, A. and **C. Duxbury**, The hidden economic and societal issues of policies on advanced networking 28 (1995/96) 1991–1998

Chalmers, M., K. Rodden and **D. Brodbeck**, The order of things: activity-centred information access 30 (1998) 359– 367

Champciaux, L., Classification: a basis for understanding tools in declarative modelling 30 (1998) 1841–1852

Chan, H.C.B. and **V.C.M. Leung,** Reservation arbitrated access – a bandwidth on demand protocol for multiplexing variable bit rate isochronous traffic over dual bus metropolitan area networks 29 (1996/98) 1969–1990

Chan, S.C.F., Ng, V.T.Y. and **Au, A.S.F.**, A solid modeling library for the World Wide Web 30 (1998) 1853–1863
Chan, S., *see* **Ng, V.** 30 (1998) 1991–2001
Chandran-Wadia, L., *see* **Almesberger, W.** 30 (1998) 2327–2336
Chang, B.-W., In-place editing of Web pages: Sparrow community-shared documents 30 (1998) 489– 498
Chang, B.-W., *see* **Crespo, A.** 29 (1996/98) 1507–1517
Chang, C.-H. and **C.-C. Hsu**, Integrating query expansion and conceptual relevance feedback for personalized Web information retrieval 30 (1998) 621– 623
Chang, C.-H. and **C.-C. Hsu**, Customizable multi-engine search tool with clustering 29 (1996/98) 1217–1224
Chang, C.-J. and **J.-F. Chang,** Optimal design parameters in a multihop packet radio network using random access techniques 11 (1986) 337– 351
Chang, C.-J. and **S.-Y. Wang,** Performance analysis of a statistical multiplexer for integrated service in the customer-premise equipment 25 (1992/93) 191– 201
Chang, C.-J., J.-W. Wong and **J.-H. Chiu,** A simulation study on the service strategies for packet voice communication networks 22 (1991) 225– 232
Chang, C.-J., *see* **Lee, S.-J.** 29 (1996/98) 1933–1951
Chang, J.-F. and **J. Wang,** Collision resolution for buffered users 12 (1986) 311– 327
Chang, J.-F. and **T.-H. Yang,** The effect of prioritization on the behavior of a finite queue with batch Poisson inputs and a synchronous server 21 (1991) 1– 16
Chang, J.-F., *see* **Chang, C.-J.** 11 (1986) 337– 351
Chang, J.W. and **C.T. Scott**, Agent-based workflow: TRP Support Environment (TSE) 28 (1995/96) 1501–1511
Chang, K.K., *see* **Rubin, I.** 29 (1996/98) 343– 355
Chanson, S.T., A.A.F. Loureiro and **S.T. Vuong,** On tools supporting the use of formal description techniques in protocol development 25 (1992/93) 723– 739
Chanson, S.T. and **K. Ravindran,** Host identification in reliable distributed kernels 15 (1988) 159– 175
Chanson, S.T. and **S.T. Vuong**, Guest Editorial 28 (1995/96) 1721–1722
Chanson, S.T., *see* **Brachman, B.J.** 19 (1990) 79– 94
Chanson, S.T., *see* **Zeng, H.X.** 17 (1989) 77– 88
Chardaire, P. and **M. Lesk,** Grade of service and optimization of distributed packet-switched networks 12 (1986) 139– 146
Charpiot, B., *see* **Banâtre, M.** 29 (1996/98) 1457–1465
Charters, P., *see* **Rodrigues, M.A.F.** 30 (1998) 2037–2045
Chase, J., *see* **Rabinovich, M.** 30 (1998) 2253–2259
Chatterjee, S., Thachenkary, C.S. and **Katz, J.L.**, Modeling the economic impacts of broadband residential services 30 (1998) 1295–1310
Chauhan, A.S., *see* **Shatz, S.M.** 18 (1989/90) 293– 314
Chemouil, P. and **J. Filipiak,** Integrated network management and control 20 (1990) 143– 153
Chemouil, P., J. Filipiak and **P. Gauthier,** Analysis and control of traffic routing in circuit-switched networks 11 (1986) 203– 217
Chen, B.-H., *see* **Yeh, P.-J.** 28 (1995/96) 1207–1218
Chen, J.R., *see* **Keller, R.M.** 29 (1996/98) 1103–1114
Chen, K.-J., *see* **Wu, C.-S.** 29 (1996/98) 2119–2138
Chen, K.-L., *see* **Yan, X.** 16 (1988/89) 405– 414
Chen, W.-T. and **U.-J. Liu,** A feasible framework of traffic control on an ATM wide-area network 27 (1994/95) 67– 84
Chen, Y.-F., *see* **Douglis, F.** 28 (1995/96) 1335–1344
Chen, Y.-t., *see* **Lee, C.** 29 (1996/98) 1635–1644
Cheng, K.E., A requirements definition and assessment framework for SDL tools 28 (1995/96) 1703–1715
Cheng, L., Quality of services based on both call admission and cell scheduling 29 (1996/98) 555– 567
Cheng, T.-H., A multichannel ATM switch with output buffering 29 (1996/98) 195– 208
Cheng, T.-H., Design and analysis of a multichannel transmission scheme 29 (1996/98) 209– 220
Cherukuri, R., *see* **Onvural, R.O.** 28 (1995/96) 307– 323
Chess, D.M., Computer viruses and related threats to computer and network integrity 17 (1989) 141– 148
Chesson, G., The challenge of workstations to networks 23 (1991/92) 15– 18
Cheung, T.-Y. and **M. Sablatash,** A functional network model for analytical file management in ISDN systems from generalization of videotex systems 16 (1988/89) 299– 310
Chiasserini, C.F., *see* **Ajmone Marsan, M.** 29 (1996/98) 2165–2185
Chin, B.-M., *see* **Cavalli, A.R.** 28 (1995/96) 1669–1683
Chiu, C.-M., *see* **Vitali, F.** 29 (1996/98) 1115–1128
Chiu, D.-M. and **R. Jain,** Analysis of the increase and decrease algorithms for congestion avoidance in computer networks 17 (1989) 1– 14
Chiu, J.-H., *see* **Chang, C.-J.** 22 (1991) 225– 232
Chlamtac, I. and **M.G. Kienzle,** Multitasking in high-speed interconnection systems 25 (1992/93) 701– 716
Chlamtac, I., *see* **Ganz, A.** 18 (1989/90) 263– 274

Cho, H.-G., *see* **Park, D.-G.** 30 (1998) 2015–2023

Cho, J., H. García-Molina and **L. Page**, Efficient crawling through URL ordering 30 (1998) 161– 172

Choi, B.D., C.G. Park and **D.K. Sung,** Performance analysis of a Leaky Bucket scheme with a threshold in the data buffer 29 (1996/98) 781– 795

Choi, J., Choi, J., Park, C. and **Kim, D.**, A cell-based shared virtual world management mechanism in the cyber mall system 30 (1998) 1865–1874

Choi, J., *see* **Choi, J.** 30 (1998) 1865–1874

Choi, T.Y. and **R.E. Miller,** Protocol analysis and synthesis by structured partitions 11 (1986) 367– 381

Chon, K., *see* **Cavalli, A.R.** 28 (1995/96) 1669–1683

Chon, K., *see* **Han, S.** 16 (1988/89) 357– 365

Chong, H.Y., Software development and implementation of NBS Class-4 transport protocol 11 (1986) 353– 365

Chong, R., *see* **Wray, III, R.E.** 28 (1995/96) 167– 178

Chong, S., R. Nagarajan and **Y.-T. Wang,** First-order rate-based flow control with dynamic queue threshold for high-speed wide-area ATM networks 29 (1996/98) 2201–2212

Choquette, J., *see* **Dziong, Z.** 20 (1990) 189– 196

Chouinard, E., *see* **Bachiochi, D.** 29 (1996/98) 1489–1496

Chover, M., *see* **Huerta, J.** 30 (1998) 1941–1950

Chowdhury, S. and **B. Sengupta,** Design and performance of a threshold-based load balancing scheme in an ATM switch 29 (1996/98) 157– 164

Christ, P., The environment of the Stuttgart Tetrahedron 21 (1991) 253– 260

Christ, U., *see* **Schulz, K.-J.** 21 (1991) 275– 283

Christensen, L.G., *see* **Birch, J.** 24 (1992) 109– 118

Christophides, V., *see* **Michard, A.** 30 (1998) 1185–1200

Chrysochos, I., M. Koukias, I. Papanikos and **G. Kokkinakis**, Upgrading of cable line concentrators to accept ISDN subscribers 28 (1995/96) 701– 707

Chu, Y.-H., Feigenbaum, J., LaMacchia, B., Resnick, P. and **Strauss, M.,** REFEREE: trust management for Web applications 29 (1996/98) 953– 964

Chua, K.C., *see* **Ko, C.C** 16 (1988/89) 347– 355

Chung, P. and **A.K. Elhakeem,** A bandwidth reducing token ring 22 (1991) 287– 302

Chung, P.E., *see* **Damani, O.P.** 29 (1996/98) 1019–1029

Ciancarini, P., A. Knoche, R. Tolksdorf and **F. Vitali**, PageSpace: An architecture to coordinate distributed applications on the web 28 (1995/96) 941– 952

Ciancarini, P., A. Rizzi and **F. Vitali**, An extensible rendering engine for XML and HTML 30 (1998) 225– 237

Ciarlo, A., The European Space Information System: ESIS 19 (1990) 362– 366

Cidon, I. and **R. Rom,** Carrier sense access in an environment of two interfering channels 12 (1986) 1– 10

Ciulli, N., S. Giordano and **D. Sparano**, A cooperative environment based on augmented reality: from telepresence to performance issues 30 (1998) 1447–1455

Claffy, K.C., *see* **Braun, H.-W.** 28 (1995/96) 37– 51

Claffy, K., *see* **Huffaker, B.** 30 (1998) 2131–2139

Claisse, G. and **F. Rowe,** The telephone in question: questions on communication 14 (1987) 207– 219

Clark, D., *see* **Perrone, C.** 28 (1995/96) 1307–1319

Clark, D.D., B.S. Davie, D.J. Farber, I.S. Gopal, B.K. Kadaba, W.D. Sincoskie, J.M. Smith and **D.L. Tennenhouse,** The AURORA gigabit testbed 25 (1992/93) 599– 621

Clark, R.J. and **M.H. Ammar,** Providing scalable Web services using multicast communication 29 (1996/98) 841– 858

Clausnitzer, A., P. Vogel and **S. Wiesener,** A WWW interface to the OMNIS/Myriad literature retrieval engine 27 (1994/95) 1017–1026

Clyne, L., LAN/WAN interworking 16 (1988/89) 34– 39

Clyne, L., Lower layer OSI addressing 17 (1989) 279– 281

Clyne, L., CONS/CLNS interworking — policy and recommendations 23 (1991/92) 47– 49

Clyne, L., SuperJANET update 25 (1993/94) S111–S116

Clyne, L., Report from the ATM task force 25 (1993/94) S135–S139

Clyne, L. and **R. Cooper,** JANET migration plans 13 (1987) 205– 206

Cochrane, D., Easing the migration into the future of communications technology 14 (1987) 323– 329

Cockburn, A.A.R., Tree-forming reversible routes in communication networks 16 (1988/89) 267– 279

Coelho, R. and **S. Tohmé,** A generic smoothing algorithm for real-time variable bit rate video traffic 29 (1996/98) 2053–2066

Coelho, V., *see* **Algayres, B.** 25 (1992/93) 779– 790

Cohen, R. and **Y. Ofek,** Reliable transmission of data over a semi-FIFO routing layer 27 (1994/95) 1633–1649

Cohen, R. and **A. Segall,** A new scheme for dynamic management of isochronous channels in integrated rings 24 (1992) 131– 144

Cohen, R.F., *see* **Huang, M.L.** 30 (1998) 638– 642

Cole, F. and **H. Brown,** ODA extensions for quality and flexibility 21 (1991) 221– 230
Cole, R.G., *see* **Kumar, A.** 27 (1994/95) 521– 535
Colin, C., Desmontils, E., Martin, J.-Y. and **Mounier, J.-P.**, Working modes with a declarative modeler 30 (1998) 1875–1886
Comer, D., T. Narten and **R. Yavatkar,** The Cypress coaxial backbone packet switch 14 (1987) 383– 388
Conci, A. and **Proença, C.B.**, A fractal image analysis system for fabric inspection based on a box-counting method 30 (1998) 1887–1895
Coninx, K., F. Van Reeth and **E. Flerackers,** 2D human–computer interaction techniques in immersive virtual environments 29 (1996/98) 1685–1693
Coninx, K., *see* **Van Reeth, F.** 30 (1998) 2065–2073
Conlan, N., *see* **Bachiochi, D.** 29 (1996/98) 1489–1496
Conrad, Ph.T., *see* **Marasli, R.** 29 (1996/98) 675– 699
Conti, M., E. Gregori and **L. Lenzini,** Influence of the BWB mechanism on some performance figures of a DQDB subnetwork 27 (1994/95) 1137–1161
Conti, M., *see* **Bondavalli, A.** 18 (1989/90) 97– 113
Coon, M., *see* **Nelson, J.** 21 (1991) 175– 185
Cooper, R., J.S. Hutton and **I.L. Smith,** From JANET to Super-JANET 21 (1991) 347– 351
Cooper, R., *see* **Clyne, L.** 13 (1987) 205– 206
Cornillie-Braun, A. and **W. Bauerfeld,** Tariff structure of European public packet switched data networks 16 (1988/89) 24– 30
Corona, A.G., Multimedia Broker project: a tool for electronic information publishers 30 (1998) 1233–1236
Costa, A., *see* **José, R.J.P.** 28 (1995/96) 543– 550
Costa, A., *see* **Rio, M.** 28 (1995/96) 535– 542
Costa, P., Astronomy 13 (1987) 213– 215
Coulson, G., G.S. Blair, N. Davies and **N. Williams,** Extensions to ANSA for multimedia computing 25 (1992/93) 305– 323
Coulson, G., G.S. Blair, J.B. Stefani, F. Horn and **L. Hazard,** Supporting the real-time requirements of continuous media in open distributed processing 27 (1994/95) 1231–1246
County, T.S.D.P., *see* **Soh, B.C.** 27 (1994/95) 1447–1456
Courtiat, J.-P., P. Dembinski, G.J. Holzmann, L. Logrippo, H. Rudin and **P. Zave**, Formal methods after 15 years: Status and trends. A paper based on contributions of the panelists at the FORmal TEchnique '95 Conference, Montreal, October 1995 28 (1995/96) 1845–1855
Courtiat, J.-P. and **P. de Saqui-Sannes,** ESTIM: an integrated environment for the simulation and verification of OSI protocols specified in Estelle 25 (1992/93) 83– 98
Courtois, P.-J. and **G. Scheys,** Minimizing the loss of non-blocking tandem buffer stages 20 (1990) 27– 35
Cowan, D.D., S. Fenton, J.W. Graham and **T.M. Stepien,** Networks for education at the University of Waterloo 15 (1988) 313– 327
Cox, Jr., J.R., *see* **Buddhikot, M.M.** 27 (1994/95) 503– 517
Cozzani, I. and **S. Giordano**, Traffic sampling methods for end-to-end QoS evaluation in large heterogeneous networks 30 (1998) 1697–1706
Craigie, J., ISO 10021 - X.400(88): a tutorial for those familiar with X.400(84) 16 (1988/89) 153– 160
Craigie, J., UK academic community directory service pilot project 17 (1989) 305– 310
Crandall, M. and **M.C. Swenson**, Integrating electronic information through a corporate Web 28 (1995/96) 1175–1186
Cranor, L.F., Laws, self-regulation, and P3P: will W3C's privacy platform help make the Web safe for privacy? 30 (1998) 751– 753
Crawford, R.D., *see* **Paepcke, A.** 15 (1988) 203– 215
Creech, M.L., Author-oriented link management 28 (1995/96) 1015–1025
Crespo, A. and **E.A. Bier**, WebWriter: A browser-based editor for constructing Web applications 28 (1995/96) 1291–1306
Crespo, A., Chang, B.-W. and **Bier, E.A.,** Responsive interaction for a large Web application: the meteor shower architecture in the WebWriter II Editor 29 (1996/98) 1507–1517
Crocetti, P., L. Fratta, M. Gerla and **M.A. Marsiglia,** SMDS multicast support in ATM networks 27 (1994/95) 117– 132
Crowcroft, J. and **R. Bradshaw,** TCP/IP Internet protocols and JANET 23 (1991/92) 177– 184
Crowcroft, J. and **G. Joly**, Touring and navigating a global learning environment - the Web 26 (1994/95) S71– S74
Crowcroft, J., *see* **Da Cruz, A.** 26 (1994/95) S163–S178
Crowcroft, J., *see* **Kirstein, P.T.** 21 (1991) 261– 273
Csaba, L., *see* **Bakonyi, P.** 17 (1989) 332– 336
Csaba, L., *see* **Szabó, C.** 19 (1990) 367– 372
Cullen, J., B. Day and **M. Planes,** The use of FTAM to access graphical pictures across wide area networks 25 (1992/93) 377– 383
Cullum, M., *see* **Pandya, R.** 20 (1990) 57– 63

Cupitt, J., *see* **Martinez, K.** 30 (1998) 399– 405

Currie, W.S., Interconnecting local area networks 19 (1990) 308– 311

Cusworth, S.D., J.M. Senior and **A. Ryley**, Wavelength division multiple access on a high-speed optical fibre LAN 18 (1989/90) 323– 333

Cutaran, R., *see* **Maly, K.** 30 (1998) 660– 662

Cuypers, C., *see* **Baert, P.** 14 (1987) 267– 270

Dabbous, W.S., High-performance protocol architecture 29 (1996/98) 735– 744

Da Cruz, A., D. Lewis and **J. Crowcroft**, Teleservice requirements for management 26 (1994/95) S163–S178

Dadej, A.J., *see* **Floreani, D.J.** 28 (1995/96) 675– 687

Dağ, T. and **I. Stavrakakis**, Evaluation of ABR traffic management under various system time scales 29 (1996/98) 2103–2117

Dahbura, A., *see* **Sabnani, K.** 15 (1988) 285– 297

Dahle, H.P., *see* **Møller-Pedersen, B.** 13 (1987) 97– 117

Dai, P., A high level class library for dynamic virtual world modelling 30 (1998) 1897–1905

Dalton, C.I. and **J.F. Griffin**, Applying military grade security to the Internet 29 (1996/98) 1799–1808

Damani, O.P., Chung, P.E., Huang, Y., Kintala, C. and **Wang, Y.-M.**, ONE-IP: techniques for hosting a service on a cluster of machines 29 (1996/98) 1019–1029

Danchak, M., *see* **Bachiochi, D.** 29 (1996/98) 1489–1496

Dand, A., Product review: trends and issues 16 (1988/89) 31– 33

Danley, D., *see* **Eichmann, D.** 27 (1994/95) 281– 299

Danthine, A., Esprit Project OSI 95. New transport services for high-speed networking 25 (1992/93) 384– 399

Danzig, P., NetCache architecture and deployment 30 (1998) 2081–2091

Danzig, P.B., *see* **Bowman, C.M.** 119

Davids, D., *see* **Altaber, J.** 23 (1991/92) 139– 142

Davie, B.S., *see* **Clark, D.D.** 25 (1992/93) 599– 621

Davies, D., Is there life after COSINE? 25 (1992/93) 518– 520

Davies, H., DANTE's plans for high speed services 25 (1993/94) S131–S133

Davies, N., *see* **Coulson, G.** 25 (1992/93) 305– 323

Davis, H., *see* **Ashman, H.** 30 (1998) 761– 762

Davis, H., *see* **Carr, L.** 28 (1995/96) 1027–1036

Davis, H.C., *see* **Carr, L.** 30 (1998) 616– 618

Davis, J. and **C. Lagoze**, "Drop-in" publishing with the World Wide Web 28 (1995/96) 247– 255

Davoli, F., *see* **Bolla, R.** 25 (1992/93) 1079–1087

Day, B., *see* **Cullen, J.** 25 (1992/93) 377– 383

Day, M., Patterson, J.F. and **Mitchell, D.**, The Notification Service Transfer Protocol (NSTP): infrastructure for synchronous groupware 29 (1996/98) 905– 915

Dayal, U., *see* **Yan, T.W.** 28 (1995/96) 1007–1014

De, P., *see* **Narasimhan, S.** 15 (1988) 121– 133

De Bra, P.M.E. and **R.D.J. Post**, Information retrieval in the World-Wide Web: Making client-based searching feasible 27 (1994/95) 183– 192

De Bruin, G., *see* **Ter Stal, W.G.** 30 (1998) 1237–1248

De Comarmond, F., *see* **Pays, P.-A.** 28 (1995/96) 1197–1206

Dedoussis, S., *see* **Altaber, J.** 23 (1991/92) 139– 142

Degieter, K., *see* **Steenhaut, K.** 29 (1996/98) 539– 554

De Giovanni, L., *see* **Berger, A.W.** 30 (1998) 1327–1340

Deiters, W., *see* **Böhm, M.** 28 (1995/96) 1961–1969

De Jong, F.M.G., *see* **Ter Stal, W.G.** 30 (1998) 1237–1248

Dekker, M., Report on the NATO Advanced Workshop 'Research Networking in Central and Eastern Europe' 25 (1993/94) S87– S91

De Lima, H.M. and **Duarte, O.C.M.B.**, Point-to-multipoint SR ARQ scheme with accumulative acknowledgment for satellite communications 30 (1998) 1311–1325

Della Mea, V., C.A. Beltrami, V. Roberto and **D. Brunato**, HTML generation and semantic markup for telepathology 28 (1995/96) 1085–1094

Delrieux, C.A., *see* **Patow, G.A.** 29 (1996/98) 1727–1736

Dembinski, P., *see* **Budkowski, S.** 14 (1987) 3– 23

Dembinski, P., *see* **Courtiat, J.-P.** 28 (1995/96) 1845–1855

De Meer, J., R. Roth and **S. Vuong**, Introduction to algebraic specifications based on the language ACT ONE 23 (1991/92) 363– 392

De Meer, J., *see* **Farooqui, K.** 27 (1994/95) 1215–1230

De Meer, J., The ISO Reference Model for Open Distributed Processing 27 (1994/95) 1211–1214

De Miguel, T., *see* **Mañas, J.A.** 25 (1992/93) 815– 839

Demizu, N. and **S. Yamaguchi**, DDT - A versatile tunneling technology 27 (1994/95) 493– 502

Dempsey, B.J., J. Liebeherr and **A.C. Weaver**, On retransmission-based error control for continuous media traffic in packet-switching networks 28 (1995/96) 719– 736

Denbar, M., *see* **Maly, K.** 30 (1998) 660– 662

Deng, R.H., *see* **Du, J.** 25 (1992/93) 1321–1333

Deng, R.H., *see* **Zhang, X.-Y.** 19 (1990) 43– 51

De Nicola, R., A. Fantechi, S. Gnesi and **G. Ristori**, An action-based framework for verifying logical and behavioural properties of concurrent systems 25 (1992/93) 761– 778

Denzel, W.E., A.P.J. Engbersen and **I. Iliadis**, A flexible shared-buffer switch for ATM at Gb/s rates 27 (1994/95) 611– 624

De Prycker, M., ATM technology: a backbone for high speed computer networking 25 (1992/93) 357– 362

Derby, J., *see* **Doeringer, W.** 29 (1996/98) 137– 155

Deri, L. and **E. Mattei,** An object-oriented approach to the implementation of OSI management 27 (1994/95) 1367–1385
Deri, L., *see* **Reilly, J.** 29 (1996/98) 1417–1428
DeRoure, D., W. Hall, S. Reich, A. Pikrakis, G. Hill and **M. Stairmand**, An open framework for collaborative distributed information management 30 (1998) 624– 625
De Roure, D., *see* **Carr, L.** 28 (1995/96) 1027–1036
DeRoure, D., *see* **Carr, L.** 30 (1998) 616– 618
De Saqui-Sannes, P., *see* **Courtiat, J.-P.** 25 (1992/93) 83– 98
Desaranno, S. and **F. Put**, Coordinating group communication 26 (1994/95) S129–S138
De Schampheleire, J., *see* **Baert, P.** 14 (1987) 267– 270
Deschamps, M., *see* **Stevens, R.J.** 14 (1987) 123– 135
Desfarges, P., *see* **Ageron, P.** 26 (1994/95) S101–S106
Desmet, E., *see* **Steyaert, B.** 25 (1992/93) 1227–1241
Desmontils, E., *see* **Colin, C.** 30 (1998) 1875–1886
Després, R., Global high speed WAN architecture for the 90's 23 (1991/92) 125– 128
De Troyer, O.M.F. and **C.J. Leune**, WSDM: a user centered design method for Web sites 30 (1998) 85– 94
De Veciana, G. and **Baldick, R.**, Resource allocation in multi-service networks via pricing: statistical multiplexing 30 (1998) 9–23
De Vriendt, J., *see* **Bruneel, H.** 19 (1990) 129– 142
DeWitt, T., *see* **Holman, T.** 18 (1989/90) 65– 71
Dhar, P., *see* **Saha, A.** 29 (1996/98) 315– 324
Diaz, M. and **P. Owezarski,** From multimedia models to multimedia transport protocols 29 (1996/98) 745– 758
Ding, J., *see* **Kuo, F.** 27 (1994/95) 419– 427
Dingeldey, R., ICCC'86 - Opening address 12 (1986) 217
Dingle, A. and **T. Pártl**, Web cache coherence 28 (1995/96) 907– 920
Dini, P. and **Logrippo, L.**, Feature interactions in telecommunications software 30 (1998) 1359–1362
Dirkx, E., *see* **Steenhaut, K.** 29 (1996/98) 539– 554
Disch, A., P. Jacob and **M. Münchhofen**, Viper – a 3D-modeling and visualization toolkit for Web-based applications 30 (1998) 626– 628
Dixon, A., Distributed publishing: delivering publisher-neutral information to the research community 30 (1998) 1475–1478
Dixon, T., Obstacles on the road to global networking 25 (1993/94) S9– S15
Dixon, T., I. Melve, R. Meneses and **T. Verschuren**, Building large-scale information services: tools and experiences from the DESIRE project 30 (1998) 1559–1569
Dobosiewicz, W. and **P. Gburzynski,** On two modified ethernets 27 (1994/95) 1545–1564
Dobosiewicz, W., P. Gburzýnski and **P. Rudnicki,** On two collision protocols for high speed bus LANs 25 (1992/93) 1205–1225
Dobson, S.A. and **V.A. Burrill,** Lightweight databases 27 (1994/95) 1009–1015
Dodge, C., B. Marx and **H. Pfeiffenberger,** Web cataloguing through cache exploitation and steps toward consistency maintenance 27 (1994/95) 1003–1008
Doelz, R., The EMBnet Project—European molecular biology network 25 (1992/93) 464– 468
Doelz, R., Biology and networks: new tools to manage distributed resources 26 (1994/95) S157–S162
Doeringer, W., D. Dykeman, M. Peters, H. Sandick, K. Vu and **J. Derby,** Access architecture for a multiprotocol broadband backbone 29 (1996/98) 137– 155
Doerr, H.M., *see* **Dwyer, D.** 27 (1994/95) 897– 904
Doganata, Y.N., T.X. Brown and **E.C. Posner,** Call setup strategy tradeoffs for universal digital portable communications 20 (1990) 455– 464
Doldi, L., *see* **Algayres, B.** 25 (1992/93) 779– 790
Dom, B., *see* **Chakrabarti, S.** 30 (1998) 65– 74
Dömel, P., WebMap: a graphical hypertext navigation tool 28 (1995/96) 85– 97
Donkers, K., *see* **Greenhalgh, C.** 30 (1998) 1677–1685
Donnelley, J.E., WWW media distribution via Hopwise Reliable Multicast 27 (1994/95) 781– 788
Doshi, B.T. and **A.A. Fredericks,** Visual modeling and analysis with application to IEEE 802.6 DQDB protocol 20 (1990) 241– 251
Doshi, B.T. and **P.K. Johri,** Communication protocols for high speed packet networks 24 (1992) 243– 273
Dossick, S.E. and **G.E. Kaiser**, WWW access to legacy client/server applications 28 (1995/96) 931– 940
Doucette, T., *see* **Rau-Chaplin, A.** 29 (1996/98) 1611–1623
Douglis, F., T. Ball, Y.-F. Chen and **E. Koutsofios**, WebGUIDE: Querying and navigating changes in Web repositories 28 (1995/96) 1335–1344
Douglis, F., *see* **Schilit, B.N.** 28 (1995/96) 1431–1444
Doutney, C., IBSS ONLINE 26 (1994/95) S79– S83
Dowe, D.L., *see* **Pringle, G.** 30 (1998) 369– 377
Drakos, N., From text to hypertext: A post-hoc rationalisation of LaTeX2HTML 27 (1994/95) 215– 224
Drakos, N., *see* **Aimar, A.** 28 (1995/96) 99– 107
Dratva, R., WWW-based home banking services in Switzerland: a case study 28 (1995/96) 199– 208
Drury, D.M., ATM traffic management and the impact of ATM switch design 28 (1995/96) 471– 479

Dssouli, R., *see* **Hafid, A.** 30 (1998) –777
Dssouli, R., *see* **v. Bochmann, G.** 29 (1996/98) 731– 733
Du, H.C., *see* **Sharrock, S.M.** 18 (1989/90) 1– 18
Du, J., R.H. Deng and **C.C. Ko,** Performanceanalysis of interconnected LANs with server/client configuration 25 (1992/93) 1321–1333
Du, X.F., *see* **Zeng, H.X.** 15 (1988) 47– 54
Duan, N.N., Distributed database access in a corporate environment using Java 28 (1995/96) 1149–1156
Duarte, O.C.M.B., *see* **De Lima, H.M.** 30 (1998) 1311–1325
Duda, A., *see* **Perret, S.** 28 (1995/96) 1373–1383
Duda, A., *see* **Rousseau, F.** 30 (1998) 417– 429
Duda, A., *see* **Sheldon, M.A.** 27 (1994/95) 953– 972
Dunn, G., *see* **Cahoon, C.** 29 (1996/98) 1777–1785
Dunskus, B.V., *see* **Wills, C.E.** 30 (1998) 2283–2291
Dupuis, A., *see* **Guillemin, F.** 24 (1992) 311– 320
Duxbury, C., *see* **Chalmers, A.** 28 (1995/96) 1991–1998
Dwyer, D., K. Barbieri and **H.M. Doerr,** Creating a virtual classroom for interactive education on the Web 27 (1994/95) 897– 904
Dyer, J., The integration of the X Window System and ISO Virtual Terminals for a European workstation environment 23 (1991/92) 101– 105
Dykeman, D., *see* **Doeringer, W.** 29 (1996/98) 137– 155
Dziong, Z., J. Choquette, K.-Q. Liao and **L. Mason,** Admission control and routing in ATM networks 20 (1990) 189– 196
Dziong, Z., K.-Q. Liao and **L. Mason,** Effective bandwidth allocation and buffer dimensioning in ATM based networks with priorities 25 (1992/93) 1065–1078

Eades, P., *see* **Huang, M.L.** 30 (1998) 638– 642
Eberle, K., *see* **Horsch, A.** 28 (1995/96) 1971–1977
Eckberg, A.E., D.T. Luan and **D.M. Lucantoni,** Bandwidth management: a congestion control strategy for broadband packet networks - characterizing the throughput-burstiness filter 20 (1990) 415– 423
Economides, A.A., P.A. Ioannou and **J.A. Silvester**, Adaptive virtual circuit routing 28 (1995/96) 401– 409
Edmondson-Yurkanan, C., *see* **Steves, D.H.** 29 (1996/98) 1809–1821
Edwards, N. and **Rees, O.,** High security Web servers and gateways 29 (1996/98) 927– 938
Egret, D. and **A. Heck**, WWW in astronomy and related space sciences 28 (1995/96) 161– 166
Eichmann, D., Ethical Web agents 28 (1995/96) 127– 136
Eichmann, D., T. McGregor and **D. Danley,** Integrating structured databases into the Web: The MORE system 27 (1994/95) 281– 299
Eichstaedt, M., *see* **Lu, Q.** 30 (1998) 443– 455
Ekhriel, I., *see* **Sokolov, N.** 25 (1992/93) 1165–1173
Ekinci, O., *see* **Bilgen, S.** 14 (1987) 305– 309
Eklund, J., *see* **Brusilovsky, P.** 30 (1998) 291– 300
Elhakeem, A.K., B. Grela-M'Poko, M. Ali and **J.F. Hayes,** Analysis of a hybrid (demand assignment TDMA) protocol for video teleconferencing-voice data optical networks 11 (1986) 219– 241
Elhakeem, A.K., *see* **Chung, P.** 22 (1991) 287– 302
Eliëns, A., van Welie, M., van Ossenbruggen, J. and **Schönhage, B.,** Jamming (on) the Web 29 (1996/98) 897– 903
Eliëns, A., *see* **van Doorn, M.** 27 (1994/95) 1105–1110
Eliëns, A., *see* **van Ossenbruggen, J.** 30 (1998) 694– 696
Elloumi, O., *see* **Bonjour, D.** 30 (1998) 1097–1110
Endo, S., *see* **Kohda, Y.** 28 (1995/96) 1493–1499
Endrizzi, A., The DUAL backbone network: distributed and parallel processing on a large scale 14 (1987) 373– 381
Engbersen, A.P.J., *see* **Denzel, W.E.** 27 (1994/95) 611– 624
England, P., R. Allen and **R. Underwood**, RAVE: Real-time services for the Web 28 (1995/96) 1547–1558
Enguix, C.F., Database querying on the World Wide Web: *UniGuide*, an object-relational search engine for Australian universities 30 (1998) 567– 572
Enslow Jr., Ph.H., ICCC'86 Opening comments 12 (1986) 207– 208
Enslow Jr., Ph., Editorial (to special issue ''Conference on Communication and Data Communication) 14 (1987) 117
Eppenberger, U., X.500 directory service usage for X.400 e-mail 25 (1993/94) S3– S8
Estrin, D., Policy requirements for Inter-Administrative Domain Routing 22 (1991) 179– 192
Estrin, D. and **G. Tsudik,** Secure control of transit internetwork traffic 22 (1991) 363– 382
Estrin, D., *see* **Govindan, R.** 30 (1998) 1157–1174
Etkin, J., *see* **Zinky, J.A.** 24 (1992) 33– 43
Etzioni, O., *see* **Shakes, J.** 29 (1996/98) 1193–1204
Evans, S.P., A quasi-stationary analysis of a virtual path in a B-ISDN network shared by services with very different characteristics 20 (1990) 391– 399
Evequoz, C. and **C. Tropper,** On reassembly delay in packet switching networks 15 (1988) 1– 25

Evéquoz, C. and **C. Tropper,** Optimal packet sizes in virtual circuit computer networks 24 (1992) 387– 404
Everitt, D., Traffic capacity of cellular mobile communications systems 20 (1990) 447– 454

Faci, M., L. Logrippo and **B. Stepien,** Formal specification of telephone systems in LOTOS: the constraint-oriented style approach 21 (1991) 53– 67
Faci, M., L. Logrippo and **B. Stepien,** Structural models for specifying telephone systems 29 (1996/98) 501– 528
Faci, M., *see* **Logrippo, L.** 23 (1991/92) 325– 342
Fahmy, S., *see* **Kalyanaraman, S.** 30 (1998) 1811–1824
Fahmy, S., *see* **Kalyanaraman, S.** 30 (1998) 2293–2308
Fairhurst, G., *see* **Pavett, S.** 30 (1998) 672– 675
Falaki, S.O., *see* **Leung, C.H.C.** 23 (1991/92) 229– 240
Fantechi, A., *see* **De Nicola, R.** 25 (1992/93) 761– 778
Farber, D.J., *see* **Clark, D.D.** 25 (1992/93) 599– 621
Farber, D.J., *see* **Smith, J.M.** 22 (1991) 143– 154
Farber, M., The quality of information on Internet 26 (1994/95) S75– S78
Farooqui, K., L. Logrippo and **J. de Meer,** The ISO Reference Model for Open Distributed Processing: an introduction 27 (1994/95) 1215–1230
Faux, I., Radeke, E., Stewing, F.-J., V.d. Broek, G., Kesteloot, P. and **Sabin, A.,** Intelligent access, publishing and collaboration in global engineering networking 30 (1998) 1249–1262
Favreau, J.P., *see* **Cavalli, A.R.** 29 (1996/98) 3– 14
Fayet, C., *see* **Présent, D.** 29 (1996/98) 2039–2052
Fdida, S., *see* **Towsley, D.** 24 (1992) 185– 195
Feigenbaum, J., *see* **Chu, Y.-H.** 29 (1996/98) 953– 964
Feldmeier, D.C., *see* **Biersack, E.W.** 25 (1992/93) 1303–1319
Felez, J., Vera, C. and **Martínez, M.L.,** Virtual reality applied to traffic accident analysis 30 (1998) 1907–1914
Fenech, T., Using perceived ease of use and perceived usefulness to predict acceptance of the World Wide Web 30 (1998) 629– 630
Fenton, S., *see* **Cowan, D.D.** 15 (1988) 313– 327
Ferguson, M.J., Formalization and validation of the Radio Link Protocol (RLPI) 29 (1996/98) 357– 372
Fernández, A., *see* **Miguel, C.** 25 (1992/93) 791– 814
Fernández del Campo, Á., *see* **Ruiz Piñar, F.J.** 30 (1998) 1543–1549
Ferreira, A., *see* **Bourdin, H.** 30 (1998) 805
Ferreira, J.N., A. Hansen, T. Klobucar, K.-P. Kossakowski, M. Medina, D. Rajnovic, O. Schjelderup and **D. Stikvoort,** CERTs in Europe 28 (1995/96) 1947–1952
Ferreira Pires, L., *see* **van Sinderen, M.** 27 (1994/95) 1263–1285
Fielding, R.T., Maintaining distributed hypertext infostructures: Welcome to MOMspider's Web 27 (1994/95) 193– 204
Filip, W., J. Kämper and **W. Knobloch,** Conversion between ODA Level 2 and RFT:DCA—experiences with a prototype 21 (1991) 197– 210
Filipiak, J., Shaping interworking mans into an evolving B-ISDN 20 (1990) 343– 349
Filipiak, J., *see* **Chemouil, P.** 11 (1986) 203– 217
Filipiak, J., *see* **Chemouil, P.** 20 (1990) 143– 153
Findling, A., *see* **Horsch, A.** 28 (1995/96) 1971–1977
Fischer, K., *see* **Nelson, J.** 21 (1991) 175– 185
Fischer, R., *see* **Perrochon, L.** 27 (1994/95) 927– 938
Fischer, S. and **Leue, S.,** Formal methods for broadband and multimedia systems 30 (1998) 865
Fitzpatrick, G., *see* **Woodruff, G.** 20 (1990) 351– 360
Flammia, G., *see* **Lau, R.** 29 (1996/98) 1385–1393
Flerackers, E., *see* **Coninx, K.** 29 (1996/98) 1685–1693
Fletcher, G.P., *see* **Reddy, M.** 30 (1998) 2149–2153
Floreani, D.J. and **A.J. Dadej,** Application of the stratification concept to radio networks and their gateways 28 (1995/96) 675– 687
Florito, M., *see* **Bilotta, E.** 27 (1994/95) 905– 909
Flower, M.C., *see* **Sember, P.P.** 30 (1998) 682– 684
Floyd, S., *see* **Michel, S.** 30 (1998) 2169–2177
Fluckiger, F., Gateways and converters in computer networks 16 (1988/89) 55– 59
Fluckiger, F., From megabit to gigabit: possible transition scenarios 23 (1991/92) 129– 138
Flückiger, F., Euro-networking and industrial policies: lessons from the past 25 (1992/93) 501– 511
Fluckiger, F., From World-Wide Web to Information Superhighway 28 (1995/96) 525– 534
Fluckiger, F. and **E. Løvdal,** Unmet challenges 17 (1989) 256– 262
Flynn, P., Aspects of the COSINE X.500 pilot project 19 (1990) 261– 264
Foest, G., Proposal for a Pan-European information service (EIS) 17 (1989) 348– 349
Foest, G., COSINE Subproject 2.2: support and information services 19 (1990) 332– 334
Foley, J.D., *see* **Mukherjea, S.** 27 (1994/95) 1075–1087
Fong, M.W., *see* **Frivold, T.J.** 28 (1995/96) 69– 75
Fonseca, N.L.S. and **J.A. Silvester,** Modelling the output process of an ATM multiplexer with correlated priorities 29 (1996/98) 2153–2164
Fonseca, R.C., *see* **Almeida, V.F.** 30 (1998) 601– 603
Ford, D., *see* **Lu, Q.** 30 (1998) 443– 455
Forestier, M., C. Berenblit and **C. Mercier,** Communication networks in a traffic management system 14 (1987) 167– 177

Forsström, P.L., *see* **Altaber, J.** 23 (1991/92) 139– 142
Forys, L.J. and **D.E. Smith,** Servicing of bursty systems 20 (1990) 171– 177
Foster, J., International user group support 19 (1990) 328– 331
Foudriat, E.C., *see* **Maly, K.J.** 25 (1992/93) 203– 223
Fox, A. and **E.A. Brewer**, Reducing WWW latency and bandwidth requirements by real-time distillation 28 (1995/96) 1445–1456
Francini, A., *see* **Ajmone Marsan, M.** 29 (1996/98) 2165–2185
Francis, P., Comparison of geographical and provider-rooted Internet addressing 27 (1994/95) 437– 448
Franck, R., Who really does need ISDN? 14 (1987) 331– 337
Franken, H.M., *see* **Quartel, D.A.C.** 29 (1996/98) 413– 436
Franklin, S.D., *see* **Ibrahim, B.** 27 (1994/95) 871– 877
Frantzen, V., Trends in the development of public telecommunication networks 14 (1987) 339– 358
Franzen, M., FDDI concentrators and how they work together with other FDDI network components 23 (1991/92) 51– 55
Frater, M.R., R.R. Bitmead, R.A. Kennedy and **B.D.O. Anderson,** Fast simulation of rare events using reverse-time models 20 (1990) 315– 321
Fraternali, P., Web development tools: a survey 30 (1998) 631– 633
Fratta, L., *see* **Bannister, J.A.** 20 (1990) 223– 230
Fratta, L., *see* **Borgonovo, F.** 24 (1992) 171– 183
Fratta, L., *see* **Crocetti, P.** 27 (1994/95) 117– 132
Fratta, L. and **J. Wozniak,** PR-EXPRESS: collision-free access protocol for packet radio networks 16 (1988/89) 229– 242
Fredericks, A.A., *see* **Doshi, B.T.** 20 (1990) 241– 251
Freeman, A.S., *see* **McAllister, D.F.** 30 (1998) 1975–1980
Freeman, C.A., *see* **Paepcke, A.** 15 (1988) 203– 215
Freitas, V., *see* **Afonso, M.** 30 (1998) 2093–2103
Freitas, V., *see* **José, R.J.P.** 28 (1995/96) 543– 550
Freitas, V., *see* **Rio, M.** 28 (1995/96) 535– 542
Freitas, V., *see* **Sousa, P.** 30 (1998) 1531–1541
Frieder, O. and **R.L. Shuey,** Communication needs in a data engineering world 25 (1992/93) 259– 273
Friedman, E.M., *see* **Frost, V.S.** 11 (1986) 99– 110
Friedrich, M., *see* **Böhm, M.** 28 (1995/96) 1961–1969
Frivold, T.J., R.E. Lang and **M.W. Fong**, Extending WWW for synchronous collaboration 28 (1995/96) 69– 75
Froitzheim, K., *see* **Wolf, H.** 30 (1998) 710– 712
Fromme, M., B. Böker, L. Grüneberg and **H. Pralle**, A conference control management system for the Internet: Confman 2.0 30 (1998) 1457–1465
Frost, V.S., E.M. Friedman and **G.J. Minden,** Multirate voice coding for load control on CSMA/CD local computer networks 11 (1986) 99– 110
Fuhr, N., *see* **Pfeifer, U.** 27 (1994/95) 1027–1036
Fui, J.T., *see* **Hamilton, Jr., R.L.** 21 (1991) 399– 415
Fujimoto, R.M., *see* **Akyildiz, I.F.** 29 (1996/98) 617– 630
Fumagalli, A., *see* **Ajmone Marsan, M.** 30 (1998) 1065–1082
Furey, T., *see* **Bachiochi, D.,** 29 (1996/98) 1489–1496

Gadde, S., *see* **Rabinovich, M.** 30 (1998) 2253–2259
Gaedke, M., *see* **Gellersen, H.-W.** 29 (1996/98) 1429–1437
Gagliardi, D., Keynote speech: ETSI 17 (1989) 244– 251
Gaibisso, C., G. Gambosi, M. Lancia and **M. Vitale**, Multimedia conferencing on packet switched networks: testing and evaluation 26 (1994/95) S139–S146
Gajewski, J., *see* **Rau-Chaplin, A.** 29 (1996/98) 1611–1623
Gall, U. and **Hauck, F.J.,** Promondia: a Java-based framework for real-time group communication in the Web 29 (1996/98) 917– 926
Gall, U., *see* **Bathelt, M.** 29 (1996/98) 1065–1073
Galle, M., *see* **Kurzke, C.** 30 (1998) 654– 655
Gambosi, G., *see* **Gaibisso, C.** 26 (1994/95) S139–S146
Game, D., *see* **Maly, K.J.** 25 (1992/93) 203– 223
Gantenbein, D., *see* **Reilly, J.** 29 (1996/98) 1417–1428
Ganz, A. and **I. Chlamtac,** An efficient solution to finite buffer non-persistent carrier sense multiple access protocol 18 (1989/90) 263– 274
Garavel, H., *see* **Algayres, B.** 25 (1992/93) 779– 790
Garcia-Luna-Aceves, J.J, A minimum-hop routing algorithm based on distributed information 16 (1988/89) 367– 382
García-Molina, H., *see* **Cho, J.** 30 (1998) 161– 172
García-Molina, H., *see* **Rodríguez-Mulà, G.** 30 (1998) 736– 738
García-Molina, H., *see* **Yan, T.W.** 28 (1995/96) 1007–1014
Garrett, L.A., *see* **Beshai, M.E.** 20 (1990) 333– 341
Garvin, R., *see* **Anderson, S.** 27 (1994/95) 1047–1053
Gassmann, H.-P., Computer communications - the economic challenge 12 (1986) 235– 238
Gaïti, D., A proposal for integrating intelligent management in the intelligent network conceptual model 28 (1995/96) 689– 699
Gauffin, L., L. Håkansson and **B. Pehrson,** Multi-gigabit networking based on DTM. A TDM medium access technique with dynamic bandwidth-allocation 24 (1992) 119– 130
Gauthier, P., *see* **Chemouil, P.** 11 (1986) 203– 217
Gauthier, P., *see* **Woodruff, A.** 28 (1995/96) 963– 980
Gaved, M., *see* **Selley, G.** 30 (1998) 1209–1222
Gay, V., P. Leydekkers and **R. Huis in 't Veld,** Specification of multi-party audio and video interaction based on the Reference Model of Open Distributed Processing 27 (1994/95) 1247–1262
Gburzýnski, P., *see* **Dobosiewicz, W.** 25 (1992/93) 1205–1225
Gburzynski, P., *see* **Dobosiewicz, W.** 27 (1994/95) 1545–1564
Gebhardt, M., *see* **Jacobs, S.** 28 (1995/96) 1385–1395

Gehrke, M. and **T. Hetschold**, Management of a public key certification infrastructure – Experiences from the DeTeBerkom project BMSec 28 (1995/96) 1901–1914
Geib, J.-M., *see* **Merle, P.** 28 (1995/96) 1269–1281
Gelard, P. and **R. Rumeau**, ATLAS - An ATM demonstration experiment for high-rate space telemetry transportation 25 (1993/94) S99– S103
Gellersen, H.-W., Wicke, R. and **Gaedke, M.,** WebComposition: an object-oriented support system for the Web engineering lifecycle 29 (1996/98) 1429–1437
Genesereth, M. and **Patterson, A.,** Editorial (to Papers from the Sixth International World Wide Web Conference) 29 (1996/98) iii
Gentner, S., *see* **Goldberg, K.** 28 (1995/96) 209– 219
Gerich, E., Expanding the Internet to a global environment but ... how to get connected? 23 (1991/92) 43– 46
Gerich, E., Management and operation of the NSFNET backbone 23 (1991/92) 69– 72
Gerla, M., *see* **Bannister, J.A.** 20 (1990) 223– 230
Gerla, M., *see* **Crocetti, P.** 27 (1994/95) 117– 132
Gerr, N.L., A timeout distribution for reduced contention in a decentralized random access channel 13 (1987) 15– 19
Gessler, S. and **A. Kotulla**, PDAs as mobile WWW browsers 28 (1995/96) 53– 59
Geukes, A., *see* **Apostolopoulos, N.** 28 (1995/96) 1873–1886
Geurts, P. and **G. Theis,** A formal approach to the description of communications services: the case of the Space Data Network (SDN) 25 (1992/93) 583– 591
Ghanta, S., *see* **Sharrock, S.M.** 18 (1989/90) 1– 18
Ghiselli, A., Interworking in INFNet 17 (1989) 371– 375
Ghiselli, A., *see* **Allocchio, C.** 19 (1990) 255– 260
Ghiselli, A., *see* **Bonetti, P.** 27 (1994/95) 461– 469
Ghosal, D., *see* **Kong, K.** 29 (1996/98) 1053–1064
Ghosal, D., *see* **Yang, Q.** 23 (1991/92) 267– 285
Giacomazzi, P. and **A. Pattavina,** Design and performance evaluation of the ATM multicast shuffle-out switch 29 (1996/98) 1953–1968
Gibson, D., *see* **Chakrabarti, S.** 30 (1998) 65– 74
Gibson, D.T., *see* **Ibe, O.C.** 11 (1986) 89– 97
Gibson, J. and **P. Rutherford**, Learners are teachers too in our virtual classroom 30 (1998) 718– 720
Gibson, R.W., IEEE 802 standards efforts 19 (1990) 95– 104
Gifford, D.K., *see* **Sheldon, M.A.** 27 (1994/95) 953– 972
-gigabit networking based on DTM. A TDM medium access technique with dynamic bandwidth-allocation 24 (1992) 119– 130
Giles, C.L., *see* **Lawrence, S.** 30 (1998) 95– 105
Gillard, D., *see* **Lucas, L.** 29 (1996/98) 1737–1744
Gillett, S.E., *see* **Tennenhouse, D.** 28 (1995/96) 1769–1790
Gillies, D., *see* **Moutsopoulos, K.** 29 (1996/98) 1675–1683
Gillies, D.F., *see* **Rodrigues, M.A.F.** 30 (1998) 2037–2045
Gillman, D., Coloured Books Transition to OSI 19 (1990) 240– 245
Gilmore, B., A user view of virtual terminal standardisation 13 (1987) 229– 233
Gilmore, B., Workstations: beyond the dumb terminal 17 (1989) 312– 314
Gilmore, B., European virtual terminal pilot project 17 (1989) 352– 353
Ginsburg, D., *see* **Barnes, J.** 28 (1995/96) 1929–1937
Giordano, S., *see* **Abba, L.** 19 (1990) 350– 355
Giordano, S., *see* **Almesberger, W.** 30 (1998) 2327–2336
Giordano, S., *see* **Ciulli, N.** 30 (1998) 1447–1455
Giordano, S., *see* **Cozzani, I.** 30 (1998) 1697–1706
Girgensohn, A. and **Lee, A.,** Seamless integration of interactive forms into the Web 29 (1996/98) 1531–1542
Girod, B., *see* **Horn, U.** 29 (1996/98) 1833–1842
Glassman, S., A caching relay for the World Wide Web 27 (1994/95) 165– 173
Glassman, S.C., *see* **Broder, A.Z.** 29 (1996/98) 1157–1166
Gnesi, S., *see* **De Nicola, R.** 25 (1992/93) 761– 778
Gobbetti, E. and **A.O. Leone**, Virtual Sardinia: A large-scale hypermedia regional information system 28 (1995/96) 1539–1546
Godby, J., *see* **Vizine-Goetz, D.** 27 (1994/95) 985–1001
Godby, J., *see* **Weibel, S.** 28 (1995/96) 239– 245
Goeller, K.E., Web-based collaborative learning: a perspective on the future 30 (1998) 634– 635
Goldberg, K., M. Mascha, S. Gentner, J. Rossman, N. Rothenberg, C. Sutter and **J. Wiegley**, Beyond the Web: manipulating the real world 28 (1995/96) 209– 219
Goldberg, M.W., S. Salari and **P. Swoboda**, World Wide Web - Course tool: An environment for building WWW-based courses 28 (1995/96) 1219–1231
Goldstein, R.F., *see* **Sperberg-McQueen** 28 (1995/96) 3– 11
Goldstein, S.N., *see* **Nadreau, J.P.** 26 (1994/95) S193–S199
Goldszmidt, G.S., *see* **Hunt, G.D.H.** 30 (1998) 347– 357
Golkar, S.N., P.T. Kirstein and **A. Montaser-**
Golmie, N., Saintillan, Y. and **Su, D.,** ABR switch mechanisms: design issues and performance evaluation 30 (1998) 1749–1761
Golshani, F. and **B. Huey,** Managing complexity: protocols and reliability 21 (1991) 79– 80
Gonthier, G., *see* **Berry, G.** 22 (1991) 35– 49
González, A., *see* **Maly, K.** 30 (1998) 660– 662
González Soto, O., On the integrated design and planning for advanced networks 20 (1990) 89– 94

Goodman, D., PARADISE: the COSINE X.500 pilot service 23 (1991/92) 111– 114
Gopal, I. and **R. Rom**, ARQ protocols for high speed hardware implementation 27 (1994/95) 677– 689
Gopal, I. and **A. Segall**, Directories for networks with casually connected users 18 (1989/90) 255– 262
Gopal, I.S., *see* **Clark, D.D.** 25 (1992/93) 599– 621
Gopal, I.S., *see* **Segall, A.** 17 (1989) 127– 139
Goransson, P., Bandwidth reservation on a commercial router 28 (1995/96) 351– 370
Gotzhein, R., Temporal logic and applications-a tutorial 24 (1992) 203– 218
Gotzhein, R., Formal definition and representation of interaction points 25 (1992/93) 3– 22
Gotzhein, R., Towards a Basic Reference Model of Open Distributed Processing 27 (1994/95) 1287–1304
Gotzhein, R. and **Bredereke, J.**, Trends in formal description techniques 30 (1998) 863
Gouda, M., *see* **Steves, D.H.** 29 (1996/98) 1809–1821
Gouda, M.G., Protocol verification made simple: a tutorial 25 (1992/93) 969– 980
Govindan, R., Alaettinoğlu, C., Varadhan, K. and **Estrin, D.**, Route servers for inter-domain routing 30 (1998) 1157–1174
Goyal, R., *see* **Kalyanaraman, S.** 30 (1998) 1811–1824
Goyal, R., *see* **Kalyanaraman, S.** 30 (1998) 2293–2308
Grabowski, J., *see* **Rudolph, E.** 28 (1995/96) 1629–1641
Gradinscak, Z., A study on computer-based geometric modelling in engineering graphics 30 (1998) 1915–1922
Graham, J.W., *see* **Cowan, D.D.** 15 (1988) 313– 327
Graham-Cumming, J., Hits and miss-es, a year watching the Web 29 (1996/98) 1357–1365
Gramm, U., *see* **Brill, M.** 21 (1991) 357– 380
Gransart, C., *see* **Merle, P.** 28 (1995/96) 1269–1281
Gratta, L., *see* **Bernabei, F.** 28 (1995/96) 743– 772
Graubmann, P., *see* **Rudolph, E.** 28 (1995/96) 1629–1641
Gravey, A., *see* **Hebuterne, G.** 20 (1990) 37– 43
Greaves, D.J. and **K. Zieliński**, The Cambridge Backbone Network. An overview and preliminary performance 25 (1992/93) 1127–1133
Grebner, R., Use of instructional material in universal teleteaching environments 29 (1996/98) 1787–1797
Green, D.G., P. Bristow, J. Ash, L. Benton, P. Milliken and **D. Newth**, Network publishing languages 30 (1998) 636– 637
Green, S.J., Automated link generation: Can we do better than term repetition? 30 (1998) 75– 84
Greenhalgh, C., S. Benford, A. Bullock, N. Kuijpers and **K. Donkers**, Predicting network traffic for collaborative virtual environments 30 (1998) 1677–1685
Greenwood, R.T., *see* **Stevens, R.J.** 14 (1987) 123– 135
Gregori, E., *see* **Bondavalli, A.** 18 (1989/90) 97– 113
Gregori, E., *see* **Conti, M.** 27 (1994/95) 1137–1161
Greisen, F., Earn report and scholarship award 19 (1990) 166– 169
Greisen, F., EARN connections to East Europe and regulatory issues 19 (1990) 177– 180
Greisen, F., The operational unit for research and academic networking in Europe 25 (1992/93) 521– 525
Grela M'Poko, B., *see* **Elhakeem, A.K.** 11 (1986) 219– 241
Griffin, J.F., *see* **Dalton, C.I.** 29 (1996/98) 1799–1808
Grimm, R., Security on networks: do we really need it? 17 (1989) 315– 323
Grimm, R., Security for open communication: the DFN Mail Security Project report 19 (1990) 196– 200
Grimm, R. and **D. Heagerty**, Recommendation for a shorthand X.400 address notation 17 (1989) 263– 267
Grimm, R. and **T. Hetschold**, Security policies in OSI-management experiences from the DeTeBerkom project BMSec 28 (1995/96) 499– 511
Grimm, C., J.-S. Vöckler and **H. Pralle**, Load and traffic balancing in large scale cache meshes 30 (1998) 1687–1695
Grimm, C., J.-S. Vöckler and **H. Pralle**, Request routing in cache meshes 30 (1998) 2269–2278
Grnarov, A.L., *see* **Karadimce, A.P.** 21 (1991) 129– 142
Groff, J.-F., *see* **Berners-Lee, T.J.** 25 (1992/93) 454– 459
Gronbaek, K., *see* **Jühne, J.** 30 (1998) 131– 139
Grönlund, Å., Public computer systems – A challenge for organizational learning 26 (1994/95) S119–S128
Gross, P., *see* **Nitzan, R.** 19 (1990) 270– 274
Großmann, H.P., *see* **Müller, P.** 26 (1994/95) S29– S38
Group, E.A.R.N.-I.P., *see* **Nussbacher, H.** 19 (1990) 312– 318
Grüneberg, L., *see* **Fromme, M.** 30 (1998) 1457–1465
Gruntorád, J., Research and academic networking in the Czech and Slovak Federal Republic 25 (1992/93) 438– 443
Gruntorád, J., TEN-34CZ: High-speed academic network on microwave links 30 (1998) 1663–1667
Gruszecki, M. and **R.N. Andries**, Some new concepts in demand and traffic forecasting and planning of future telecommunication services 20 (1990) 65– 74

Gu, X., *see* **Noh, T.H.** 29 (1996/98) 1857–1867
Guest, S., *see* **Van der Veer, G.C.** 15 (1988) 73– 80
Guillemin, F. and **A. Dupuis,** A basic requirement for the policing function in ATM networks 24 (1992) 311– 320
Guillemin, F., C. Levert and **C. Rosenberg,** Cell conformance testing with respect to the peak cell rate in ATM networks 27 (1994/95) 703– 726
Gunningberg, P., *see* **Murphy, S.C.** 22 (1991) 51– 59
Gupta, A., *see* **Katkere, A.** 28 (1995/96) 1559–1572
Gupta, A., *see* **Maly, K.J.** 27 (1994/95) 849– 860
Gustafsson, J., *see* **Karjoth, G.** 25 (1992/93) 853– 874
Guttag, J., *see* **Legedza, U.** 30 (1998) 2193–2201
Guy, A.M., *see* **Seiler, R.J.** 30 (1998) 739– 741

Habib, I., A. Tarraf and **T. Saadawi,** A neural network controller for congestion control in ATM multiplexers 29 (1996/98) 325– 334
Habib, I.W. and **T.N. Saadawi,** Access control of bursty voice traffic in ATM networks 27 (1994/95) 1411–1427
Hackbarth, K.-D., Implications of the ISDN-concept on telecommunication network planning 13 (1987) 269– 274
Hader, S., *see* **Meyer, T.** 28 (1995/96) 77– 84
Hadjiefthymiades, S.P. and **D.I. Martakos**, A generic framework for the deployment of structured databases on the World Wide Web 28 (1995/96) 1139–1148
Hadjiefthymiades, S.P. and **Martakos, D.I.,** Improving the performance of CGI compliant database gateways 29 (1996/98) 1291–1304
Hafid, A., Von Bochmann, G. and **Dssouli, R.**, A quality of service negotiation approach with future reservations (NAFUR): a detailed study 30 (1998) 777
Hagens, R.A., *see* **Cargille, C.A.** 23 (1991/92) 97– 100
Hagsand, O., *see* **Bolognesi, T.** 22 (1991) 61– 77
Hahm, J.-H., *see* **Shin, M.-K.** 30 (1998) 685– 687
Hai, L., *see* **Yong, L.K.** 30 (1998) 271– 279
Haj-Hussein, M., *see* **Logrippo, L.** 23 (1991/92) 325– 342
Håkansson, L., *see* **Gauffin, L.** 24 (1992) 119– 130
Hall, W., *see* **Carr, L.** 28 (1995/96) 1027–1036
Hall, W., *see* **Carr, L.** 30 (1998) 616– 618
Hall, W., *see* **DeRoure, D.** 30 (1998) 624– 625
Hallgren, M.M., Funding an Internet public good: definition and example 27 (1994/95) 403– 409
Hamacher, V.C., *see* **Kamal, A.E.** 17 (1989) 15– 27
Hamdi, M. and **W.C. Ming,** Dynamic p_i-persistent protocol with reduced station hardware 29 (1996/98) 717– 722
Hamilton, Jr., R.L. and **J.T. Fui,** A matrix-geometric model for a CSMA/CD network with a gateway 21 (1991) 399– 415
Hamilton, M., J. Heaton, J. Martin, G. Neisser and **D. Wessels**, Editorial: 3rd International Caching Workshop, Manchester, 15th–17th June 1998 30 (1998) 2079–2079
Hamilton, M., *see* **Valkenburg, P.** 30 (1998) 1571–1578
Hamilton, N.M., *see* **Pavett, S.** 30 (1998) 672– 675
Hamilton, N.M., *see* **Robinson, D.A.** 30 (1998) 301– 307
Hammer, D.K., *see* **Schepers, H.J.J.H.** 23 (1991/92) 241– 251
Hammer, D.K., *see* **Schepers, H.J.J.H.** 23 (1991/92) 253– 266
Hammond, J.L., *see* **Yeh, W.P.** 27 (1994/95) 1349–1366
Han, S., Chon, K. and **D. Lee,** A virtual terminal protocol with windowing capability 16 (1988/89) 357– 365
Hannell, I., *see* **Aimar, A.** 28 (1995/96) 99– 107
Hansen, A., RARE MHS project review 16 (1988/89) 8– 12
Hansen, A., Coordination of mail gateways: the X.400-RFC problem 19 (1990) 251– 254
Hansen, A., *see* **Cargille, C.A.** 23 (1991/92) 97– 100
Hansen, A., *see* **Ferreira, J.N.** 28 (1995/96) 1947–1952
Hansen, G., *see* **Bogen, M.** 28 (1995/96) 1979–1990
Hansen, G., *see* **Bogen, M.** 30 (1998) 607– 609
Hansen, G., *see* **Bonkowski, C.** 30 (1998) 1637–1647
Hansson, P., *see* **Wei, L.** 28 (1995/96) 789– 798
Hara, Y., *see* **Mukherjea, S.** 29 (1996/98) 1181–1191
Hardman, L., *see* **Bulterman, D.C.A.** 30 (1998) 519– 529
Hardman, L., *see* **van Ossenbruggen, J.** 30 (1998) 694– 696
Hardy, D.R., *see* **Bowman, C.M.** 119
Har'el, Z., *see* **Aggarwal, S.** 16 (1988/89) 197– 215
Haring, G., *see* **Raghavan, S.V.** 27 (1994/95) 1193–1206
Harms, J. and **K. Miles,** Editorial 19 (1990) 147– 149
Harms, J.J. and **J.W. Wong,** Performance modeling of a channel reservation service 27 (1994/95) 1487–1497
Harris, R.A., *see* **Koudelka, O.** 21 (1991) 285– 292
Hartley, D., Keynote address: policy issues for academic and research networking 19 (1990) 152– 157
Hartman, J.H., Proebsting, T.A. and **Sundaram, R.,** Index-based hyperlinks 29 (1996/98) 1129–1135
Harvey, C.C., CERT — Computer Emergency Response Team 23 (1991/92) 167– 170
Hasegawa, T., *see* **Oie, Y.** 17 (1989) 201– 221
Hasegawa, T., *see* **Shiozawa, Y.** 20 (1990) 297– 308
Haselager, P., *see* **Van der Veer, G.C.** 15 (1988) 73– 80

Hauck, F.J., Supporting hierarchical guided tours in the World Wide Web 28 (1995/96) 1233–1242
Hauck, F.J., *see* **Gall, U.** 29 (1996/98) 917– 926
Hausen, H.-L., *see* **Bogen, M.A.** 26 (1994/95) S107–S118
Havermans, G.M.J., *see* **Schepers, H.J.J.H.** 23 (1991/92) 241– 251
Havermans, G.M.J., *see* **Schepers, H.J.J.H.** 23 (1991/92) 253– 266
Hawkes, R., *see* **Wray, M.** 30 (1998) 43– 51
Hayashi, M., *see* **Shimada, T.** 29 (1996/98) 1467–1477
Hayes, J.F., *see* **Elhakeem, A.K.** 11 (1986) 219– 241
Hayes, J.F., *see* **Luan, Z.** 25 (1992/93) 183– 190
Hayes, J.F., *see* **Mehmet Ali, M.K.** 15 (1988) 109– 119
Hayes, J.P., *see* **Yanney, R.M.** 15 (1988) 229– 243
Hazard, L., *see* **Coulson, G.** 27 (1994/95) 1231–1246
He, C.S., *see* **Zeng, H.X.** 15 (1988) 47– 54
Heagerty, D., Practical experience with high level gateways for mail transfer 13 (1987) 195– 200
Heagerty, D., Next stop OSI: transition to DECnet Phase V 19 (1990) 246– 250
Heagerty, D., *see* **Grimm, R.** 17 (1989) 263– 267
Heaton, J., *see* **Hamilton, M.** 30 (1998) 2079–2079
Hebuterne, G. and **A. Gravey**, A space priority queuing mechanism for multiplexing ATM channels 20 (1990) 37– 43
Heck, A., *see* **Egret, D.** 28 (1995/96) 161– 166
Heijne, M., *see* **Miles, K.** 19 (1990) 335– 338
Heinänen, J., Review of backbone technologies 21 (1991) 239– 245
Heinänen, J., Frame relay as a multiprotocol backbone interface 25 (1992/93) 363– 369
Heinänen, J., Rolling-out ATM based network services 25 (1993/94) S105–S110
Heinzmann, P. and **H. Rudin**, Guest editorial 22 (1991) 83– 85
Heleno, P. and **Próspero dos Santos, M.**, Artificial animals in virtual ecosystems 30 (1998) 1923–1932
Henderson, B., Performance analysis: when do we give up on product form solutions 20 (1990) 271– 275
Henderson, W., Finding and using exact equilibrium distributions for stochastic Petri nets 25 (1992/93) 1143–1153
Henken, G., Mapping of X.400 and RFC822 addresses 13 (1987) 161– 164
Henzinger, M., *see* **Bharat, K.** 30 (1998) 469– 477
Herchuelz, P., Supercomputers: some aspects of their impact on communications 17 (1989) 328– 330
Herder, J., Tools and widgets for spatial sound authoring 30 (1998) 1933–1940
Hermanns, H., Herzog, U. and **Mertsiotakis, V.**, Stochastic process algebras – between LOTOS and Markov chains 30 (1998) 9–232601
Hermanns, O. and **M. Schuba**, Performance investigations of the IP multicast architecture 28 (1995/96) 429– 439
Hermsdorf D., *see* **Pieper, M.** 29 (1996/98) 1479–1487
Hersovici, M., M. Jacovi, Y.S. Maarek, D. Pelleg, M. Shtalhaim and **S. Ur**, The shark-search algorithm. An application: tailored Web site mapping 30 (1998) 317– 326
Herzberg, A. and **Yochai, H.**, MiniPay: charging per click on the Web 29 (1996/98) 939– 951
Herzog, U., *see* **Hermanns, H.** 30 (1998) 9–232601
Hetschold, T., *see* **Gehrke, M.** 28 (1995/96) 1901–1914
Hetschold, T., *see* **Grimm, R.** 28 (1995/96) 499– 511
Heyman, D.P., A performance model of the credit manager algorithm 24 (1992) 81– 91
Hibbard, W., D. Santek and **G. Tripoli**, Interactive atmospheric data access via high-speed networks 22 (1991) 103– 109
Hill, G., *see* **Carr, L.** 28 (1995/96) 1027–1036
Hill, G., *see* **DeRoure, D.** 30 (1998) 624– 625
Hill, J.M., The X.500 Directory Service and the Data Protection Act 23 (1991/92) 163– 166
Hindel, B., *see* **Bathelt, M.** 29 (1996/98) 1065–1073
Hine, M., *see* **Altaber, J.** 23 (1991/92) 139– 142
Hine, M., *see* **Koudelka, O.** 16 (1988/89) 129– 134
Hinrichs, E., *see* **Appelt, W.** 30 (1998) 499– 508
Hinton, S., From home page to home site: effective Web resource discovery at the ANU 30 (1998) 309– 316
Hirata, K., *see* **Mukherjea, S.** 29 (1996/98) 1181–1191
Hoffman, E., A. Mankin, M. Perez and **S.J. Marsh**, Vince: Vendor independent (and architecture flexible) network control 27 (1994/95) 471– 478
Hoffmann, G., B-WiN – The ATM-based high-speed network for the DFN community 28 (1995/96) 1953–1960
Hofstetter, I., Multimedia applications for local newspapers and local information 30 (1998) 1223–1232
Hogan, M., R. Keaney, E. Wilson, M. Hudson, M. Bickerstaff, D. Skellern and **M. Krischer**, An architectural framework for the support of integrated services by broadband customer premises equipment 29 (1996/98) 595– 610
Hogrefe, D., Validation of SDL systems 28 (1995/96) 1659–1667
Hogrefe, D., *see* **Belina, F.** 16 (1988/89) 311– 341
Holleczek, P. and **T. Baumgarten**, Throughput measurements in a 2 Mbps X.25 network 25 (1992/93) 351– 356
Holleczek, P., *see* **Bauerfeld, W.** 17 (1989) 300– 304

Holman, T., S. Wakid and **T. DeWitt,** The role of the NIU-forum in realizing interoperable ISDN 18 (1989/90) 65– 71
Holzmann, G.J., Design and validation of protocols: a tutorial 25 (1992/93) 981–1017
Holzmann, G.J., *see* **Courtiat, J.-P.** 28 (1995/96) 1845–1855
Hong, S.J. and **H. Takagi,** Analysis of transmission delay for a structured-priority packet-switching system 29 (1996/98) 701– 715
Hoogenraad, N.J., *see* **Bannon, D.R.** 30 (1998) 716– 717
Hopkins, T., *see* **Russell, M.** 30 (1998) 2211–2222
Horn, F., *see* **Coulson, G.** 27 (1994/95) 1231–1246
Horn, U. and **B. Girod,** Scalable video transmission for the Internet 29 (1996/98) 1833–1842
Hornbeek, M.W.A., *see* **Probert, R.L.** 18 (1989/90) 19– 29
Horneffer, M., Methods for performance-analysis of internet access points 30 (1998) 1607–1615
Horsch, A., K. Eberle, A. Findling, B. Kraus, V. Pentcheva-Spiridonov and **A. Tarhanjan,** Collaborative work with medical images in a university hospital environment: Three pilot projects 28 (1995/96) 1971–1977
Hoschka, P., *see* **Bolot, J.-C.** 28 (1995/96) 1397–1405
Hosokawa, T., *see* **Nishikawa, N.** 30 (1998) 205– 214
Houck, D.J. and **Lai, W.S.,** Traffic modeling and **analysis of hybrid fiber–coax systems** 30 (1998) 821
Houttuin, J., Classifications in e-mail routing 25 (1993/94) S72– S81
Hsu, C., *see* **Pant, S.** 28 (1995/96) 1481–1492
Hsu, C.-C., *see* **Chang, C.-H.** 29 (1996/98) 1217–1224
Hsu, C.-C., *see* **Chang, C.-H.** 30 (1998) 621– 623
Hsu, I. and **J. Walrand,** Admission control for multi-class ATM traffic with overflow constraints 28 (1995/96) 1739–1751
Hu, X., *see* **Rau-Chaplin, A.** 29 (1996/98) 1611–1623
Huang, H.-Y., T. Robertazzi and **A.A. Lazar,** A comparison of information based deflection strategies 27 (1994/95) 1399–1407
Huang, M.L., P. Eades and **R.F. Cohen,** WebOFDAV – navigating and visualizing the Web on-line with animated context swapping 30 (1998) 638– 642
Huang, N.-F. and **S.-T. Sheu,** A waste-free congestion control scheme for dual bus high-speed networks 29 (1996/98) 221– 235
Huang, N.-F., C.-S. Wu and **Y.-J. Wu,** Some routing problems on Broadband ISDN 27 (1994/95) 101– 116
Huang, T.-Y. and **J.-L.C. Wu,** Performance analysis of prioritized state-dependent buffer-management schemes in ATM networks 27 (1994/95) 45– 66
Huang, Y., *see* **Damani, O.P.** 29 (1996/98) 1019–1029
Hudson, M., *see* **Hogan, M.** 29 (1996/98) 595– 610
Huerta, J., Chover, M., Ribelles, J. and **Quirós, R.,** Multiresolution modeling using binary space partitioning trees 30 (1998) 1941–1950
Huey, B., *see* **Golshani, F.** 21 (1991) 79– 80
Huffaker, B., J. Jung, E. Nemeth, D. Wessels and **K. Claffy,** Visualization of the growth and topology of the NLANR caching hierarchy 30 (1998) 2131–2139
Hughes, A.S., *see* **Touch, J.** 30 (1998) 2245–2252
Hughes, C.J., Feedback restricted access queues for controlling cell loss in ATM networks 28 (1995/96) 345– 350
Huis in 't Veld, R., *see* **Gay, V.** 27 (1994/95) 1247–1262
Huitema, C., The X.500 directory services 16 (1988/89) 161– 166
Huitema, C., Proposal for co-ordination of a RARE OSI directory pilot 17 (1989) 350– 351
Huitema, C., The challenge of multimedia mail 17 (1989) 324– 327
Huitema, C., Naming: strategies and techniques 23 (1991/92) 107– 110
Humblet, P.A. and **S.R. Soloway,** Topology broadcast algorithms 16 (1988/89) 179– 186
Hünke, H., Gala-dinner speech 23 (1991/92) 3– 10
Hunt, G.D.H., G.S. Goldszmidt, R.P. King and **R. Mukherjee,** Network Dispatcher: a connection router for scalable Internet services 30 (1998) 347– 357
Hurley, S., *see* **Campbell, J.K.** 27 (1994/95) 887– 896
Hurst, M., *see* **Inder, R.** 30 (1998) 643– 645
Husemann, D., ISO CONS in LANs —making it all work. A European contribution to 4.4 BSD Unix 25 (1992/93) 411– 419
Hussain, F., *see* **Kuo, F.** 27 (1994/95) 419– 427
Huston, G., Desperately seeking default. Internet policy update: A perspective from the Pacific 26 (1994/95) S3– S14
Hutchinson, N., T. Patten and **B. Unger,** The flooding sink - a new approach to local area networking 11 (1986) 1– 14
Hutton, J., Standardization update 13 (1987) 171– 174
Hutton, J., Overview of the current situation 16 (1988/89) 21– 23
Hutton, J., RARE working groups: an overview 17 (1989) 241– 243
Hutton, J., *see* **Truijens, J.** 13 (1987) 135–139
Hutton, J.S. and **A. Jeffree,** Acceptable Use policy 23 (1991/92) 33– 36
Hutton, J.S., *see* **Cooper, R.** 21 (1991) 347– 351
Huynh, T., *see* **Pfeifer, U.** 27 (1994/95) 1027–1036

Ibe, O.C., Editorial (Special issue on Local Area Networks) 11 (1986) 87– 87
Ibe, O.C., An integrated CATV-type metropolitan area network 13 (1987) 291– 299

Ibe, O.C. and **D.T. Gibson,** Synchronous communications protocols for local networks 11 (1986) 89– 97
Ibrahim, B. and **S.D. Franklin,** Advanced educational uses of the World-Wide Web 27 (1994/95) 871– 877
Ibrahim, B., World-wide algorithm animation 27 (1994/95) 255– 265
Ichikawa, T., *see* **Liechti, O.** 30 (1998) 11– 21
Ifergan, S., *see* **Ben-Shaul, I.** 29 (1996/98) 1029–1039
Ikeuchi, N. and **M. Yoshida,** Network constructing algorithm based on link significance evaluation: NABLE 17 (1989) 29– 36
Ilg, D., *see* **Meyer, T.** 28 (1995/96) 221– 228
Iliadis, I. and **Orsatti, D.,** Performance of TCP traffic and ABR congestion control mechanisms 30 (1998) 1763–1774
Iliadis, L., *see* **Denzel, W.E.** 27 (1994/95) 611– 624
Imine, M. and **H. Nagahashi,** A new approach in polynomial and Bézier parametric piecewise modeling 29 (1996/98) 1559–1570
Inder, R., M. Hurst and **T. Kato,** A prototype agent to assist shoppers 30 (1998) 643– 645
Ing, S., *see* **Wilbur, S.** 28 (1995/96) 491– 497
Ingham, D., S. Caughey and **M. Little,** Fixing the "Broken-Link" problem: the W3Objects approach 28 (1995/96) 1255–1268
Ingham, D.B., Caughey, S.J. and **Little, M.C.,** Supporting highly manageable Web services 29 (1996/98) 1405–1416
Ingham, D.B., *see* **Caughey, S.J.** 29 (1996/98) 1007–1017
Ingham, D., *see* **Caughey, S.** 30 (1998) 619– 620
Ingham, D.B., *see* **Little, M.C.** 29 (1996/98) 1281–1290
Ingram, R., *see* **Benford, S.** 29 (1996/98) 1751–1761
Ingvarson, D., D. Marinova and **P. Newman,** Electronic networking: Social and policy aspects of a rapidly growing technology. Electronic networking: Policy aspects for Australia 27 (1994/95) 411– 418
Innocent, P., *see* **Van der Veer, G.C.** 15 (1988) 73– 80
Inose, H., *see* **Saito, T.** 12 (1986) 11– 25
Ioannou, P.A., *see* **Economides, A.A.** 28 (1995/96) 401– 409
Ionesco, V., Using an intranet for real-time production management: experiences and effects 30 (1998) 479– 488
Iovane, D., *see* **Bilotta, E.** 27 (1994/95) 905– 909
Ireland, J.M., *see* **Seiler, R.J.** 30 (1998) 739– 741
Irmer, Th., ICCC'86 Keynote address 12 (1986) 219– 223
Isaacs, M., Approaches to network training with particular reference to a perceived need for self-help materials 27 (1994/95) 345– 352
Isnard, C., *see* **Altaber, J.** 23 (1991/92) 139– 142
Issarny, V., *see* **Banâtre, M.** 29 (1996/98) 1457–1465
Ito, A., *see* **Wakahara, Y.** 13 (1987) 119– 128
Iun, D.P.C. and **Cao, X.-R.,** Performance analysis of a nonblocking ATM switch with a bufferless internal speedup fabric 30 (1998) 2337–2347
Iwami, N., *see* **Shimada, T.** 29 (1996/98) 1467–1477

Jackson, M., *see* **Jenkins, C.** 30 (1998) 646– 648
Jacob, L. and **Kumar, A.,** Comparative performance of scheduling strategies for switching and multiplexing in a hub based ATM network: a simulation study 30 (1998) 1341–1354
Jacob, P., *see* **Disch, A.** 30 (1998) 626– 628
Jacobs, B.E., *see* **Mathews, G.J.** 28 (1995/96) 1523–1538
Jacobs, S., M. Gebhardt, S. Kethers and **W. Rzasa,** Filling HTML forms simultaneously: CoWeb – architecture and functionality 28 (1995/96) 1385–1395
Jacobsen, M., *see* **Yan, T.W.** 28 (1995/96) 1007–1014
Jacobsen, T., The European Community is developing conformance testing services 13 (1987) 175– 179
Jacobson, V., *see* **Michel, S.** 30 (1998) 2169–2177
Jacovi, M., *see* **Hersovici, M.** 30 (1998) 317– 326
Jacovi, M., *see* **Maarek, Y.S.** 29 (1996/98) 1269–1279
Jaffe, J.M., Hierarchical clustering with topology databases 15 (1988) 329– 339
Jaffe, J.M., A.E. Baratz and **A. Segall,** Subtle design issues in the implementation of distributed, dynamic routing algorithms 12 (1986) 147– 158
Jaffe, J.M., *see* **Baratz, A.E.** 12 (1986) 27– 37
Jain, R., Characteristics of destination address locality in computer networks: A comparison of caching schemes 18 (1989/90) 243– 254
Jain, R., Congestion control and traffic management in ATM networks: Recent advances and a survey 28 (1995/96) 1723–1738
Jain, R., *see* **Chiu, D.-M.** 17 (1989) 1– 14
Jain, R., *see* **Kalyanaraman, S.** 30 (1998) 1811–1824
Jain, R., *see* **Kalyanaraman, S.** 30 (1998) 2293–2308
Jain, R., *see* **Katkere, A.** 28 (1995/96) 1559–1572
Jain, R., *see* **Katkere, A.** 29 (1996/98) 887– 895
Jajszcyk, A., On combinatorial properties of broadband time-division switching networks 20 (1990) 377– 382
Jalote, P., *see* **Rangarajan, S.** 30 (1998) 327– 336
James, F., AHA: audio HTML access 29 (1996/98) 1395–1404
Jamp, R., *see* **Paepcke, A.** 15 (1988) 203– 215
Jan, R.-H., *see* **Tsai, I.-F.** 29 (1996/98) 797– 810
Jansen, J., *see* **Bulterman, D.C.A.** 30 (1998) 519– 529
Janson, P. and **R. Molva,** Security in open networks and distributed systems 22 (1991) 323– 346
Janson, P., *see* **Zatti, S.** 15 (1988) 269– 283

Janssens, G.K., J. Raes and **D. Staelens,** An implementation approach for local area networks 14 (1987) 365– 372
Jeffree, A., *see* **Hutton, J.S.** 23 (1991/92) 33– 36
Jeffree, T., A review of OSI management standards 16 (1988/89) 167– 174
Jenkins, C., M. Jackson, P. Burden and **J. Wallis,** Automatic classification of Web resources using Java and Dewey Decimal Classification 30 (1998) 646– 648
Jennings, D., The EARN OSI programme 19 (1990) 234– 239
Jensen, A.T., *see* **Jühne, J.** 30 (1998) 131– 139
Jeong, J.-M., *see* **Kang, C.-S.** 27 (1994/95) 1387–1398
Jerman-Blažič, B., Tool supporting the internationalisation of the generic network services 27 (1994/95) 429– 435
Jerman-Blažič, B., D. Trček, T. Klobučar and **F. Bračun,** A tool for support of key distribution and validity certificate check in global Directory service 28 (1995/96) 709– 717
Jessel, J.P., *see* **Kardassevitch, C.** 30 (1998) 1961–1974
Jhunjhunwala, A., *see* **Krishna Thilakam, R.** 25 (1992/93) 241– 257
Jia, F. and **B. Mukherjee,** The superchannel scheme for integrated services on multiple access broadcast networks 27 (1994/95) 1523–1543
Jiang, J., *see* **Kalyanaraman, S.** 30 (1998) 1811–1824
Jiau, J.-C., *see* **Wu, C.-S.** 29 (1996/98) 2119–2138
Jin, C.-Y., *see* **Tcha, D.-W.** 16 (1988/89) 217– 227
Jin, S., D.R. Vaman and **D. Sinha,** A performance management framework to provide bounded packet delay and variance in packet switched networks 22 (1991) 249– 264
Jing, W. and **M. Paterakis,** Extending the single-node DQDB analytical model to analyze network-wide performance 27 (1994/95) 653– 675
Joe, I., *see* **Akyildiz, I.F.** 29 (1996/98) 617– 630
Joerding, T. and **K. Meissner,** Intelligent multimedia presentations in the Web: fun without annoyance 30 (1998) 649– 650
Johnson, D.B., *see* **Perkins, C.** 27 (1994/95) 479– 491
Johnson, M.J., Reliability mechanisms of the FDDI high bandwidth token ring protocol 11 (1986) 121– 131
Johnson, M.J., Coping with data from Space Station Freedom 22 (1991) 131– 142
Johnston, W., *see* **Robertson, D.** 28 (1995/96) 155– 160
Johri, P.K., *see* **Doshi, B.T.** 24 (1992) 243– 273
Jolkovski, A.W., *see* **Maeght, Ph.E.** 14 (1987) 155– 158
Joly, G., *see* **Crowcroft, J.** 26 (1994/95) S71– S74
Jonas, K., H. Jungblut, J. Kaeber, M. Kaul, I. Müller, H. Santo, J. Schäfer and **R. Wegner,** The Information Footprint: a satellite-based information on demand teleservice 28 (1995/96) 563– 573
Jones, H., Trends in computer-mediated art and design: examples from the centre for electronic arts 30 (1998) 1951–1960
Jones, K.L., nif-T-nav: A hierarchical navigator for WWW pages 28 (1995/96) 1345–1353
Jones, R., Digital's World-Wide Web server: A case study 27 (1994/95) 297– 306
Jones, R.K., *see* **Pitkow, J.E.** 27 (1994/95) 729– 737
Jones, R.K., *see* **Pitkow, J.E.** 28 (1995/96) 981– 991
Jones, S.B., *see* **Campbell, J.K.** 27 (1994/95) 887– 896
Joosten, J., *see* **Carpenter, B.** 19 (1990) 304– 307
Jordaan, M.J. and **H. Van Kampen,** Digital technology for business communications 14 (1987) 359– 364
José, R.J.P., A. Costa, J. Macedo and **V. Freitas,** Providing multiple external views on directory user interfaces 28 (1995/96) 543– 550
Jouanigot, J.M., *see* **Altaber, J.** 23 (1991/92) 139– 142
Jühne, J., A.T. Jensen and **K. Gronbaek,** Ariadne: a Java-based guided tour system for the World Wide Web 30 (1998) 131– 139
Jung, J., *see* **Huffaker, B.** 30 (1998) 2131–2139
Jung, J.-I., Translation of user's QoS requirements into ATM performance parameters in B-ISDN 28 (1995/96) 1753–1767
Jungblut, H., *see* **Jonas, K.** 28 (1995/96) 563– 573
Jyrkinen, L.J., *see* **Oikarinen, J.T.** 30 (1998) 2003–2014

Kaarela, K., J. Oksanen and **J. Takalo,** An information model as a basis for hypermedia-based plant documentation 27 (1994/95) 751– 764
Kabatepe, M. and **Vastola, K.S.,** A delay analysis of FDQ (Fair Distributed Queue) and DQDB networks 30 (1998) 1013–1027
Kadaba, B.K., *see* **Clark, D.D.** 25 (1992/93) 599– 621
Kaeber, J., *see* **Jonas, K.** 28 (1995/96) 563– 573
Kaeppner, T., *see* **Venkat Rangan, P.** 27 (1994/95) 549– 565
Kahan, J., A capability-based authorization model for the World-Wide Web 27 (1994/95) 1055–1064
Kaiser, G.E., *see* **Dossick, S.E.** 28 (1995/96) 931– 940
Kaiser, G.E., *see* **Yang, J.J.** 28 (1995/96) 1243–1254
Kaivers, R., Communication analysis in the company 14 (1987) 199– 205
Kajka, P.S., *see* **Shatz, S.M.** 18 (1989/90) 293– 314
Kalfaoglu, T., The LISTEARN experience 19 (1990) 319– 322
Kalin, T. and **D. Barber,** Has the OSI opportunity been fully realised? 25 (1992/93) 227– 239

Kalyanaraman, S., Jain, R., Jiang, J., Goyal, R. and **Fahmy, S.**, Design considerations for the virtual source/virtual destination (VS/VD) feature in the ABR service of ATM networks 30 (1998) 1811–1824
Kalyanaraman, S., Jain, R., Goyal, R., Fahmy, S. and **Samudra, P.**, Use-it-or-lose-it policies for the available bit rate (ABR) service in ATM networks 30 (1998) 2293–2308
Kamal, A.E., An enhanced scheme for the management of isochronous channels in ring networks 27 (1994/95) 1479–1483
Kamal, A.E. and **V.C. Hamacher,** Approximate analysis of non-exhaustive multiserver polling systems with applications to local area networks 17 (1989) 15– 27
Kamba, T., *see* **Sakagami, H.** 29 (1996/98) 1447–1455
Kamba, T., *see* **Sakagami, H.** 30 (1998) 53– 63
Kameda, H., *see* **Li, J.** 25 (1992/93) 1335–1348
Kamiya, K., M. Röscheisen and **T. Winograd**, Grassroots: A system providing a uniform framework for communicating, structuring, sharing information, and organizing people 28 (1995/96) 1157–1174
Kämper, J., *see* **Filip, W.** 21 (1991) 197– 210
Kang, C.-S., B.-S. Park, J.-D. Shin and **J.-M. Jeong,** A broadband ring network: multi-channel optical slotted ring 27 (1994/95) 1387–1398
Kang, Y., *see* **Wong, J.S.K.** 18 (1989/90) 379– 391
Kangasharju, J., Y.G. Kwon and **A. Ortega**, Design and implementation of a soft caching proxy 30 (1998) 2113–2121
Kaniyil, J., Y. Onozato and **S. Noguchi,** On the behavioral aspects of alternate routing in non-hierarchical networks 25 (1992/93) 275– 294
Kaniyil, J., *see* **Wang, X.** 22 (1991) 213– 224
Kao, S.-k. and **B. Mukherjee,** A load-controlled scheduling scheme for integrated voice-data communication on high-speed LANs/MANs 27 (1994/95) 1457–1478
Kao, S.-K., *see* **Mukherjee, B.** 25 (1992/93) 103– 120
Kapidzic, N. and **S. Muftic**, COST-PEM certificates verification: an alternative procedure 26 (1994/95) S187–S191
Kappe, F., *see* **Andrews, K.** 27 (1994/95) 919– 926
Karadimce, A.P., R.R. Seban and **A.L. Grnarov,** A general-purpose, high performance algorithm for distributed systems reliability evaluation 21 (1991) 129– 142
Kardassevitch, C., Paulin, M., Jessel, J.P. and **Caubet, R.**, A hierarchical radiosity platform using efficient data structures and VRML 97 30 (1998) 1961–1974
Karjoth, G., C. Binding and **J. Gustafsson,** LOEWE: A LOTOS engineering workbench 25 (1992/93) 853– 874
Karlsson, J.M., H.G. Perros and **I. Viniotis,** Adaptive polling schemes for an ATM bus with bursty arrivals 24 (1992) 93– 103
Karrenberg, D., EUnet and OSI transition plans 16 (1988/89) 94– 100
Karrenberg, D., A. Lord and **M. Terpstra**, The RIPE NCC – one year of experience with European Internet coordination 25 (1993/94) S58– S62
Karshmer, A.I., J. Phelan and **J. Thomas,** TVNet: an image and data delivery system using cable T.V. facilities 15 (1988) 135– 151
Karunaratne, N., *see* **Maly, K.** 30 (1998) 660– 662
Kashper, A.N., Introduction of flexible routing for international networks 20 (1990) 137– 141
Kashper, A.N., S.S. Katz and **G.R. Ash,** Robust design for switched digital services in a worldwide intelligent network 20 (1990) 81– 88
Katkere, A., J. Schlenzig, A. Gupta and **R. Jain**, Interactive video on WWW: Beyond VCR-like interfaces 28 (1995/96) 1559–1572
Katkere, A., Schlenzig, J. and **Jain, R.,** Content-centric interactive video on the World Wide Web 29 (1996/98) 887– 895
Kato, T., *see* **Inder, R.** 30 (1998) 643– 645
Katoen, J.-P., *see* **Brinksma, E.** 30 (1998) 9–23
Katoen, J.-P., *see* **van Sinderen, M.** 27 (1994/95) 1263–1285
Katz, E.D., M. Butler and **R. McGrath,** A scalable HTTP server: The NCSA prototype 27 (1994/95) 155– 164
Katz, J.L., *see* **Chatterjee, S.** 30 (1998) 1295–1310
Katz, S.S., *see* **Kashper, A.N.** 20(1990) 81– 88
Kaufmann, P., Migration of DFN-message-handling-service 13 (1987) 207– 211
Kaufmann, P., Technical concept for the high-speed data network (HDN) in DFN 21 (1991) 335– 342
Kaufmann, P., The implementation of a high-speed network for the DFN-community 26 (1994/95) S179–S186
Kaul, M., *see* **Jonas, K.** 28 (1995/96) 563– 573
Kawashima, K. and **H. Saito,** Teletraffic issues in ATM networks 20 (1990) 369– 375
Kazman, R., *see* **Carrière, S.J.** 29 (1996/98) 1257–1267

Keaney, R., *see* **Hogan, M.** 29 (1996/98) 595– 610
Keeler, M., A new approach to digital resource development (a new method for marketing digital technology) 26 (1994/95) S85– S91
Kelleher, L.A., Navigating the Internet—a merit network cruise 25 (1992/93) 460– 463
Keller, R.M., Wolfe, S.R., Chen, J.R., Rabinowitz, J.L. and **Mathe, N.,** A bookmarking service for organizing and sharing URLs 29 (1996/98) 1103–1114
Kelly, B., Becoming an information provider on the World Wide Web 27 (1994/95) 353– 360
Kelly, J.P.J., *see* **Murphy, S.C.** 22 (1991) 51– 59
Kelly, P., The perfect marriage or the satisfaction of mutual need 19 (1990) 162– 164
Kemble, J., *see* **Wills, C.E.** 30 (1998) 2283–2291
Kennedy, R.A., *see* **Frater, M.R.** 20 (1990) 315– 321
Kent, R.E. and **C. Neuss**, Creating a web analysis and visualization environment 109
Kent, R.E., *see* **Neuss, C.** 27 (1994/95) 973– 984
Kesteloot, P., *see* **Faux, I.** 30 (1998) 1249–1262
Kethers, S., *see* **Jacobs, S.** 28 (1995/96) 1385–1395
Khan, I. and **V.O.K. Li,** Traffic control in ATM networks 27 (1994/95) 85– 100
Khare, R. and **A. Rifkin**, The origin of (document) species 30 (1998) 389– 397
Khare, R. and **A. Rifkin**, Trust management on the World Wide Web 30 (1998) 651– 653
Khodabandeh, A., *see* **Aimar, A.** 28 (1995/96) 99– 107
Khoumsi, A. and **K. Saleh,** Two formal methods for the synthesis of discrete event systems 29 (1996/98) 759– 780
Kienzle, M.G., *see* **Chlamtac, I.** 25 (1992/93) 701– 716
Kikumoto, Y., *see* **Leung, C.H.C.** 23 (1991/92) 229– 240
Kille, S., The THORN large scale pilot exercise 16 (1988/89) 143– 145
Kille, S.E., Session on directories and naming 13 (1987) 221
Kim, D., *see* **Choi, J.** 30 (1998) 1865–1874
Kim, H.S., Design of a fault-tolerant multi-channel ATM switch for BISDN 27 (1994/95) 29– 43
Kim, J.B., R. Simha and **T. Suda**, Analysis of a finite buffer queue with heterogeneous Markov Modulated Arrival processes: a study of traffic burstiness and priority packet discarding 28 (1995/96) 653– 673
Kim, J.B., T. Suda and **M. Yoshimura,** International standardization of B-ISDN 27 (1994/95) 5– 27
Kim, Y.H., B.C. Shin and **C.K. Un,** Performance analysis of leaky-bucket bandwidth enforcement strategy for bursty traffics in an ATM network 25 (1992/93) 295– 303
Kimbler, K., Capellmann, C. and **Velthuijsen, H.**, Comprehensive approach to service interaction handling 30 (1998) 1363–1387
King, R.P., *see* **Hunt, G.D.H.** 30 (1998) 347– 357
Kintala, C., *see* **Damani, O.P.** 29 (1996/98) 1019–1029
Kirstein, P., *see* **Nelson, J.** 21 (1991) 175– 185
Kirstein, P.T., Upgrading the intercontinental links for research collaboration with emphasis on the UK-US scene 19 (1990) 286– 293
Kirstein, P.T. and **J. Crowcroft,** International links for research collaboration 21 (1991) 261– 273
Kirstein, P.T. and **G. Montaser-Kohsari,** Proposed ODA pilot activities for the research community 23 (1991/92) 153– 156
Kirstein, P.T. and **P. Williams,** Piloting authentication and security services within OSI applications for RTD information (PASSWORD) 25 (1992/93) 483– 489
Kirstein, P.T., *see* **Golkar, S.N.** 21 (1991) 187– 196
Kirstein, P.T., *see* **Sameshima, Y.** 28 (1995/96) 513– 523
Kistler, T. and **H. Marais**, WebL – a programming language for the Web 30 (1998) 259– 270
Klein, A., Teleteaching scenarios for high bandwidth networks 30 (1998) 1707–1716
Klein, J.S., *see* **Tennenhouse, D.** 28 (1995/96) 1769–1790
Klein, L., *see* **Baker, T.** 26 (1994/95) S55– S61
Kleinberg, J., *see* **Chakrabarti, S.** 30 (1998) 65– 74
Kleinrock, L., On distributed systems performance 20 (1990) 209– 215
Klobucar, T., *see* **Ferreira, J.N.** 28 (1995/96) 1947–1952
Klobučar, T., *see* **Jerman-Blažič, B.** 28 (1995/96) 709– 717
Knight, G., The COSINE CONCISE information service project 23 (1991/92) 115– 118
Knobloch, W., *see* **Filip, W.** 21 (1991) 197– 210
Knoche, A., *see* **Ciancarini, P.** 28 (1995/96) 941– 952
Ko, C.C., K.M. Lye, K.C. Chua and **F.T. Yap,** Analysis of a CSMA/CD-based protocol with dynamic segmentation 16 (1988/89) 347– 355
Ko, C.C., *see* **Du, J.** 25 (1992/93) 1321–1333
Ko, K.-T., P.P. Mishra and **S.K. Tripathi,** Interaction among virtual circuits using predictive congestion control 25 (1992/93) 681– 699
Koenemann, J., *see* **Nick, A.** 30 (1998) 1491–1500
Kohda, Y. and **S. Endo**, Ubiquitous advertising on the WWW: Merging advertisement on the browser 28 (1995/96) 1493–1499
Kohn, D.M., Providing global broadband Internet access using low-earth-orbit satellites 29 (1996/98) 1763–1768
Kohsari, ODA activities at University College London 21 (1991) 187– 196
Kokkinakis, G., *see* **Chrysochos, I.** 28 (1995/96) 701– 707

Kolletzki, S., Secure Internet banking with Privacy Enhanced Mail – A protocol for reliable exchange of secured order forms 28 (1995/96) 1891–1899
Konangi, V.K., *see* **Belovich, S.G.** 21 (1991) 121– 127
Konangi, V.K., *see* **Srinidhi, S.M.** 29 (1996/98) 569– 582
Kong, K. and **Ghosal, D.**, Pseudo-serving: a user-responsible paradigm for internet access 29 (1996/98) 1053–1064
Kongsli, T.A., TCP/IP internetwork communication through LANs interconnected by Dikon Meganet 23 (1991/92) 57– 62
Kongsli, T.A., S.A. Solbakk, L. Steinbakk and **L.K. Vognild,** The ELDORADO project—a Norwegian project on high speed communication 21 (1991) 293– 297
Kontovasilis, K., *see* **Mitrou, N.** 27 (1994/95) 1175–1192
Koops, B.-J., Crypto regulation in Europe. Some key trends and issues 29 (1996/98) 1823–1831
Köppen, E. and **G. Neumann**, A practical approach towards active hyperlinked documents 30 (1998) 251– 258
Körner, U., *see* **Pióro, M.** 20 (1990) 127– 136
Koseki, Y., *see* **Sakagami, H.** 30 (1998) 53– 63
Koseki, Y., *see* **Sugiura, A.** 30 (1998) 688– 690
Kositpaiboon, R., *see* **Woodruff, G.** 20 (1990) 351– 360
Kossakowski, K.-P., *see* **Ferreira, J.N.** 28 (1995/96) 1947–1952
Kossmann, H., A graphic SDL support environment 13 (1987) 91– 96
Koster, M., ALIWEB - Archie-like indexing in the WEB 27 (1994/95) 175– 182
Kotulla, A., *see* **Gessler, S.** 28 (1995/96) 53– 59
Koudelka, O. and **R.A. Harris,** LAN interconnection by satellite and the COST 226 project 21 (1991) 285– 292
Koudelka, O. and **M. Hine,** Higher speed services 16 (1988/89) 129– 134
Koudelka, O., *see* **Altaber, J.** 23 (1991/92) 139– 142
Koukias, M., *see* **Chrysochos, I.** 28 (1995/96) 701– 707
Koutsofios, E., *see* **Douglis, F.** 28 (1995/96) 1335–1344
Kovalyov, S.P., *see* **Belov, S.D.** 30 (1998) 1657–1662
Kraaij, W., *see* **Ter Stal, W.G.** 30 (1998) 1237–1248
Kraus, B., *see* **Horsch, A.** 28 (1995/96) 1971–1977
Kripanandan, R.S. and **S.V. Raghavan,** Experience in test generation using multi-level approach 27 (1994/95) 591– 610
Krischer, M., *see* **Hogan, M.** 29 (1996/98) 595– 610
Krishna Thilakam, R. and **A. Jhunjhunwala,** The design and flow control of a high speed, integrated, packet switched network 25 (1992/93) 241– 257
Krishnamurthy, B. and **C.E. Wills**, Piggyback server invalidation for proxy cache coherency 30 (1998) 185– 193
Krishnan, M., *see* **Schechter, S.** 30 (1998) 457– 467
Krishnan, P. and **B. Sugla**, Utility of co-operating Web proxy caches 30 (1998) 195– 203
Krishnan, R., Rate-based control schemes for ABR traffic – Design principles and performance comparison 29 (1996/98) 583– 593
Kristensen, A., Template resolution in XML/HTML 30 (1998) 239– 249
Kristoffersen, F. and **T. Walter,** TTCN: Towards a formal semantics and validation of test suites 29 (1996/98) 15– 47
Kristol, D.M., *see* **Schilit, B.N.** 28 (1995/96) 1431–1444
Krönert, G., *see* **Nelson, J.** 21 (1991) 175– 185
Krzyzanowski, P., *see* **Schilit, B.N.** 28 (1995/96) 1431–1444
Kshemkalyani, A.D., *see* **Peyravian, M.** 30 (1998) 1029–1043
Kühn, S., *see* **Breiter, F.** 30 (1998) 1627–1635
Kühn, S., *see* **Schill, A.** 28 (1995/96) 1915–1927
Kuijpers, N., *see* **Greenhalgh,** C. 30 (1998) 1677–1685
Kulagin, S.A., *see* **Belov, S.D.** 30 (1998) 1657–1662
Kumar, A. and **R.G. Cole,** Comparative performance of interleaved and non-interleaved pipelining in ATM terminal adapters 27 (1994/95) 521– 535
Kumar, A., *see* **Jacob, L.** 30 (1998) 1341–1354
Kumar, P., *see* **Bharat, K.** 30 (1998) 469– 477
Kummer, P., R. Tasker, N. Linge and **E. Ball,** A protocol-less scheme for bridging between IEEE 802 local area networks 12 (1986) 81– 87
Kummer, P., *see* **Linge, N.** 13 (1987) 323– 332
Kundaeli, H.N., Comparison of some CCITT and **computed design parameters** 30 (1998) 2373–2376
Kunft, W., Developments in academic networking in Austria 25 (1992/93) 561– 565
Kuo, F., J. Ding, C. Zheng and **F. Hussain,** Issues in academic networking in the PRC 27 (1994/95) 419– 427
Kurcewicz, M., W. Sylwestrzak and **A. Wierzbicki**, A filtering algorithm for Web caches 30 (1998) 2203–2209
Kurcewicz, M., W. Sylwestrzak and **A. Wierzbicki**, A distributed WWW cache 30 (1998) 2261–2267
Kurzke, C., M. Galle and **M. Bathelt**, WebAssist: a user profile specific information retrieval assistant 30 (1998) 654– 655
Kurzke, C., *see* **Bathelt, M.** 29 (1996/98) 1065–1073
Kuwahara, Y., *see* **Shimada, T.** 29 (1996/98) 1467–1477
Kwak, W.I., *see* **Loucks, W.M.** 11 (1986) 133– 146
Kwon, Y.G., *see* **Kangasharju, J.** 30 (1998) 2113–2121

Labourdette, J.-F.P., Traffic optimization and reconfiguration management of multiwavelength multihop broadcast lightwave networks 30 (1998) 9–23

La Corte, A., A. Lombardo and **G. Schembra,** An analytical paradigm to calculate multiplexer performance in an ATM multimedia environment 29 (1996/98) 1881–1900
Lacoste, M., Communication in the perspective of work analysis 14 (1987) 231– 235
Ladd, B., *see* **Capps, M.** 28 (1995/96) 1105–1112
Lagoze, C., *see* **Davis, J.** 28 (1995/96) 247– 255
Lai, J.-J., *see* **Lee, S.-J.** 29 (1996/98) 1933–1951
Lai, M.-C., *see* **Yeh, P.-J.** 28 (1995/96) 1207–1218
Lai, R. and **W. Leung,** Industrial and academic protocol testing: the gap and the means of convergence 27 (1994/95) 537– 547
Lai, W.S., An analysis of the integrity of data delivery in computer networks 12 (1986) 291– 310
Lai, W.S., *see* **Houck, D.J.** 30 (1998) 821
Lai, Y.-C. and **Y.-D. Lin,** Performance analysis of rate-based flow control under a variable number of sources 29 (1996/98) 2139–2152
Lai, Y.-W., *see* **Lee, S.-J.** 29 (1996/98) 1933–1951
Laird, J., *see* **Wray, III, R.E.** 28 (1995/96) 167– 178
LaLiberte, D. and **A. Braverman,** A protocol for scalable group and public annotations 27 (1994/95) 911– 918
LaMacchia, B.A., The Internet Fisch Construction Kit 29 (1996/98) 1237–1248
LaMacchia, B., *see* **Chu, Y.-H.** 29 (1996/98) 953– 964
Lamm, S.E., D.A. Reed and **W.H. Scullin,** Real-time geographic visualization of World Wide Web traffic 28 (1995/96) 1457–1468
Lampson, B., *see* **Tennenhouse, D.** 28 (1995/96) 1769–1790
Lancia, M., *see* **Gaibisso, C.** 26 (1994/95) S139–S146
Landry, R. and **I. Stavrakakis,** Multiplexing ATM traffic streams with time-scale-dependent arrival processes 29 (1996/98) 293– 313
Landweber, L.H., *see* **Cargille, C.A.** 23 (1991/92) 97b1 100
Lang, R.E., *see* **Frivold, T.J.** 28 (1995/96) 69– 75
Langendörfer, H., *see* **Sun, Q.** 30 (1998) 795
Langerak, R., *see* **Brinksma, E.** 30 (1998) 9–232625
Langheinrich, M., *see* **Shakes, J.** 29 (1996/98) 1193–1204
Langsford, A., Distributed systems management: overview of a COST-11 ter project 15 (1988) 61– 65
Laporte, C., *see* **Seligmann, D.D.** 29 (1996/98) 1519–1530
Latella, D., *see* **Bolognesi, T.** 22 (1991) 61– 77
Latella, D., *see* **Brinksma, E.** 30 (1998) 9–232625
Latouche, G., Sample path analysis of packet queues subject to periodic traffic 20 (1990) 409– 413
Latrille, J., Socio-technical aspects of electronic mail implementation 14 (1987) 283– 290
Lau, R., Flammia, G., Pao, C. and **Zue, V.,** WebGALAXY: beyond point and click – a conversational interface to a browser 29 (1996/98) 1385–1393
Lau, W.-c. and **S.-q. Li,** Traffic distortion and inter-source cross-correlation in high-speed integrated networks 29 (1996/98) 811– 830
Law, D., The plan of action for libraries: an EC initiative 19 (1990) 339– 342
Lawrence, S. and **C.L. Giles,** Inquirus, the NECI meta search engine 30 (1998) 95– 105
Lazar, A.A., *see* **Huang, H.-Y.** 27 (1994/95) 1399–1407
Le Bon, A., *see* **Rosenberg, C.** 25 (1992/93) 1155–1163
Le Boudec, J.-Y., The Asynchronous Transfer Mode: a tutorial 24 (1992) 279– 309
Le Boudec, J.-Y., *see* **Almesberger, W.** 30 (1998) 2327–2336
Le Gall, P., Packetized traffic engineering for new services 20 (1990) 425– 433
Lea, C.-T., *see* **Peyravian, M.** 28 (1995/96) 1831–1844
Leakey, D.M., Integrated services digital networks: some possible ongoing evolutionary trends 15 (1988) 303– 312
Leduc, G., A framework based on implementation relations for implementing LOTOS specifications 25 (1992/93) 23– 41
Leduc, G., *see* **Léonard, L.** 29 (1996/98) 271– 292
Lee, A., *see* **Girgensohn, A.** 29 (1996/98) 1531–1542
Lee, C., T.-y. Lee, T.-c. Lu and **Y.-t. Chen,** A World-Wide Web based distributed animation environment 29 (1996/98) 1635–1644
Lee, D., Ramakrishnan, K.K. and **Moh, W.M.,** A formal specification of the ATM ABR rate control scheme 30 (1998) 1735–1748
Lee, D., D. Srivastava and **D. Vista,** Generating advanced query interfaces 30 (1998) 656– 657
Lee, D., *see* **Han, S.** 16 (1988/89) 357– 365
Lee, D.Y. and **J.Y. Lee,** Performance comparison of bridge algorithms in interconnected local area networks 22 (1991) 265– 276
Lee, E., *see* **MacGregor, J.** 28 (1995/96) 799– 809
Lee, F.J., *see* **Paepcke, A.** 15 (1988) 203– 215
Lee, G.M., *see* **Nessett, D.M.** 19 (1990) 105– 128
Lee, G.Y. and **C.K. Un,** Delay analysis of the ISDN D-channel access protocol 19 (1990) 25– 41
Lee, H. and **Y. Nemoto,** Providing the statistical QoS objectives in high-speed networks 29 (1996/98) 1919–1931
Lee, H.-H., *see* **Park, D.-G.** 30 (1998) 2015–2023

Lee, H.W. and **L. Liang,** A generalized analysis of message delay in STDMA 19 (1990) 11– 24
Lee, J., Physically-based modeling of brush painting 29 (1996/98) 1571–1576
Lee, J.Y., *see* **Lee, D.Y.** 22 (1991) 265– 276
Lee, J.-Y., *see* **Shin, M.-K.** 30 (1998) 685– 687
Lee, M.K.O., Internet-based financial EDI: towards a theory of its organizational adoption 30 (1998) 1579–1588
Lee, S.-J., Y.-W. Lai, J.-J. Lai and **C.-J. Chang,** A slot reuse scheme for CRMA networks 29 (1996/98) 1933–1951
Lee, T.-y., *see* **Lee, C.** 29 (1996/98) 1635–1644
Legedza, U. and **J. Guttag,** Using network-level support to improve cache routing 30 (1998) 2193–2201
Lejeune, Y., *see* **Algayres, B.** 25 (1992/93) 779– 790
Leleu, F., *see* **Banâtre, M.** 29 (1996/98) 1457–1465
Lenz, M., *see* **Baker, T.** 26 (1994/95) S55– S61
Lenz, M., *see* **Bogen, M.** 28 (1995/96) 1187–1196
Lenz, M., *see* **Bogen, M.** 28 (1995/96) 1979–1990
Lenz, M., *see* **Bogen, M.** 30 (1998) 607– 609
Lenz, M., *see* **Bonkowski, C.** 30 (1998) 1637–1647
Lenzini, L., The OSIRIDE-intertest initiative: status and trends 16 (1988/89) 243– 255
Lenzini, L. and **F. Zoccolini,** Interoperability tests on OSI products in the framework of the OSIRIDE-Intertest initiative 24 (1992) 65– 79
Lenzini, L., *see* **Bondavalli, A.** 18 (1989/90) 97– 113
Lenzini, L., *see* **Conti, M.** 27 (1994/95) 1137–1161
Léonard, L. and **G. Leduc,** An introduction to ET-LOTOS for the description of time-sensitive systems 29 (1996/98) 271– 292
Leonardi, E., *see* **Ajmone Marsan, M.** 30 (1998) 1065–1082
Leone, A.O., *see* **Gobbetti, E.** 28 (1995/96) 1539–1546
Leong, M.-K., *see* **Cao, L.** 30 (1998) 612– 615
Léonhardt, J.L., *see* **Bessière, C.** 23 (1991/92) 157– 161
Lesk, M., *see* **Chardaire, P.** 12 (1986) 139– 146
Lester, C.R., *see* **Robinson, D.A.** 30 (1998) 301– 307
Leue, S., *see* **Fischer, S.** 30 (1998) 865
Leune, C.J., *see* **De Troyer, O.M.F.** 30 (1998) 85– 94
Leung, C.H.C., Y. Kikumoto, S.-A. Sørensen and **S.O. Falaki,** A new efficient ARQ scheme for satellite communications 23 (1991/92) 229– 240
Leung, V.C.M., *see* **Chan, H.C.B.** 29 (1996/98) 1969–1990
Leung, W., *see* **Lai, R.** 27 (1994/95) 537–547
LeVan, R., *see* **Weibel, S.** 28 (1995/96) 239– 245
Levert, C., *see* **Guillemin, F.** 27 (1994/95) 703– 726
Levine, D.A., *see* **Akyildiz, I.F.** 28 (1995/96) 371– 390
Levrat, B., The networked campus 23 (1991/92) 19– 24
Lewis, A., Forecasting international ISDN requirements 20 (1990) 75– 79
Lewis, D., *see* **Da Cruz, A.** 26 (1994/95) S163–S178
Lewontin, S., The DCE Web toolkit: enhancing WWW protocols with lower-layer services 27 (1994/95) 765– 771
Leydekkers, P., *see* **Gay, V.** 27 (1994/95) 1247–1262
L'Haire, J.-F., *see* **Solomon, C.** 23 (1991/92) 79– 85
Li, C.-S., Ofek, Y., Segall, A. and **Sohraby, K.,** Pseudo-isochronous cell forwarding 2359–2371
Li, J. and **H. Kameda,** Optimal load balancing in tree networks with two-way traffic 25 (1992/93) 1335–1348
Li, J.-J. and **C.-M. Weng,** B^+-tree: a high-performance switching structure for ATM with dual input buffering 27 (1994/95)) 1499–1522
Li, L., *see* **Todd, T.D.** 15 (1988) 177– 188
Li, Q., *see* **Zeng, H.X.** 15 (1988) 47– 54
Li, S.-q., *see* **Lau, W.-c.** 29 (1996/98) 811– 830
Li, V.O.K., *see* **Ammar, M.H.** 27 (1994/95) 1– 3
Li, V.O.K., *see* **Khan, I.** 27 (1994/95) 85– 100
Li, W.-S. and **J. Shim,** Facilitating complex Web queries through visual user interfaces and query relaxation 30 (1998) 149– 159
Liang, E., *see* **Takahashi, K.** 29 (1996/98) 1167–1180
Liang, L., *see* **Lee, H.W.** 19 (1990) 11– 24
Liao, K.-Q., *see* **Dziong, Z.** 20 (1990) 189– 196
Liao, K.-Q., *see* **Dziong, Z.** 25 (1992/93) 1065–1078
Liao, T., WebCanal: a multicast Web application 29 (1996/98) 1091–1102
Lie, H.W., *see* **Nielsen, H.F.** 28 (1995/96) 13– 23
Liebeherr, J., *see* **Akyildiz, I.F.** 28 (1995/96) 855– 872
Liebeherr, J., *see* **Dempsey, B.J.** 28 (1995/96) 719– 736
Liechti, O., M.J. Sifer and **T. Ichikawa,** Structured graph format: XML metadata for describing Web site structure 30 (1998) 11– 21
Lim, J.-G., Using Coollists to index HTML documents in the Web 28 (1995/96) 147– 154
Lin, T.-P., ISDN basic rate interface architecture for ADPCM transmission 18 (1989/90) 55– 64
Lin, Y.-D., *see* **Lai, Y.-C.** 29 (1996/98) 2139–2152
Lindert, F., *see* **Böhm, M.** 28 (1995/96) 1961–1969
Linge, N., E. Ball, R. Tasker and **P. Kummer,** A bridge protocol for creating a spanning tree topology within an IEEE 802 extended LAN environment 13 (1987) 323– 332
Linge, N., *see* **Kummer, P.** 12 (1986) 81– 87
Linington, P.F., President's review of the year 16 (1988/89) 6– 7
Linington, P.F., The COSINE implementation phase review 16 (1988/89) 108– 115
Linington, P.F., Why OSI? 17 (1989) 287– 290

Linn, Jr., R.J., Testing to assure interworking of implementations of ISO/OSI protocols 11 (1986) 277– 286
Linn, Jr., R.J., Conformance testing for OSI Protocols 18 (1989/90) 203– 219
Linn, R.J., *see* **Sijelmassi, R.** 23 (1991/92) 343– 362
Lipp, P. and **R. Posch**, An interbridge-security protocol 25 (1992/93) 496– 500
Lipper, E.H., Switching system performance issues for universal personal communications 28 (1995/96) 603– 611
Listanti, M., *see* **Bernabei, F.** 28 (1995/96) 743– 772
Little, M.C., Shrivastava, S.K., Caughey, S.J. and **Ingham, D.B.**, Constructing reliable Web applications using atomic actions 29 (1996/98) 1281–1290
Little, M., *see* **Ingham, D.** 28 (1995/96) 1255–1268
Little, M.C., *see* **Caughey, S.J.** 29 (1996/98) 1007–1017
Little, M.C., *see* **Ingham, D.B.** 29 (1996/98) 1405–1416
Liu, J., *see* **Onozato, Y.** 12 (1986) 329– 337
Liu, M.T., *see* **Bahaa-El-Din, W.H.** 24 (1992) 349– 366
Liu, M.T., *see* **Shu, J.C.** 21 (1991) 93– 108
Liu, S.S., Impacts of signaling-intensive local services (SILS) on B-ISDN switching systems: a simulation study 25 (1992/93) 121– 143
Liu, U.-J., *see* **Chen, W.-T.** 27 (1994/95) 67
Lloyd, M., Conformance: assuring interoperability 17 (1989) 367– 370
Lo Cigno, R., *see* **Ajmone Marsan, M.** 29 (1996/98) 2165–2185
Logrippo, L., M. Faci and **M. Haj-Hussein**, An introduction to LOTOS: learning by examples 23 (1991/92) 325– 342
Logrippo, L., R.L. Probert and **H. Ural**, Three tutorial papers on protocol specification, validation, and design 24 (1992) 199– 201
Logrippo, L., *see* **Courtiat, J.-P.** 28 (1995/96) 1845–1855
Logrippo, L., *see* **Dini, P.** 30 (1998) 1359–1362
Logrippo, L., *see* **Faci, M.** 21 (1991) 53– 67
Logrippo, L. *see* **Faci, M.** 29 (1996/98) 501– 528
Logrippo, L., *see* **Farooqui, K.** 27 (1994/95) 1215–1230
Logrippo, L., *see* **Tuok, R.** 30 (1998) 1045–1063
Lombardo, A., S. Palazzo, D. Panno, R. Pignatelli and **L. Susanna**, An adaptive policing mechanism for a DQDB MAN 25 (1992/93) 1119–1126
Lombardo, A., *see* **La Corte, A.** 29 (1996/98) 1881–1900
Lord, A., *see* **Karrenberg, D.** 25 (1993/94) S58– S62
Loucks, W.M., W.I. Kwak and **Z.G. Vranesic**, Implementation of a dynamic address assignment protocol in a local area network 11 (1986) 133– 146
Loureiro, A.A.F., *see* **Chanson, S.T.** 25 (1992/93) 723– 739
Low, C. and **L. Babarit**, Distributed 3D audio rendering 30 (1998) 407– 415
Low, H.-B., *see* **Cao, L.** 30 (1998) 612– 615
Lowder, J. and **X. Wu**, Wide area selection as a hyperdocument search interface 30 (1998) 658– 659
Lu, Q., M. Eichstaedt and **D. Ford**, Efficient profile matching for large scale Webcasting 30 (1998) 443– 455
Lu, Q. and **L. Stesin**, Audio ticker 30 (1998) 721– 722
Lu, T.-c., *see* **Lee, C.** 29 (1996/98) 1635–1644
Lu, Y., *see* **Cao, L.** 30 (1998) 612– 615
Luan, D.T., *see* **Eckberg, A.E.** 20 (1990) 415– 423
Luan, Z., J.F. Hayes and **M.K. Mehmet Ali**, Frame synchronization performance of SONET signals 25 (1992/93) 183– 190
Lubacz, J., *see* **Pióro, M.** 20 (1990) 127– 136
Lubich, H. and **B. Plattner**, Naming and addressing in SWITCHmail 16 (1988/89) 48– 54
Lubich, H., Guest Editorial (to Selected Papers of the 8th Joint European Networking Conference 29 (1996/98) 1749–1750
Lubich, H.P., MultimETH, a collaborative editing and conferencing project 19 (1990) 215– 223
Lucantoni, D.M., *see* **Eckberg, A.E.** 20 (1990) 415– 423
Lucas, L., D. Gillard and **Y. Rémion**, A new unsupervised cube-based algorithm for iso-surface generation 29 (1996/98) 1737–1744
Lundberg, S., *see* **Ardö, A.** 30 (1998) 173– 183
Luotonen, A. and **K. Altis**, World-Wide Web proxies 27 (1994/95) 147– 154
Lutz, E., *see* **Tcha, D.-W.** 16 (1988/89) 217– 227
Løvdal, E., The challenge of TCP/IP 17 (1989) 376– 379
Løvdal, E., *see* **Fluckiger, F.** 17 (1989) 256– 262
Lye, K.M., *see* **Ko, C.C** 16 (1988/89) 347– 355

Maarek, Y.S. and **I.Z. Ben Shaul**, Automatically organizing bookmarks per contents 28 (1995/96) 1321–1333
Maarek, Y.S., Jacovi, M., Shtalhaim, M., Ur, S., Zernik, D. and **Ben-Shaul, I.Z.**, Web-Cutter: a system for dynamic and tailorable site mapping 29 (1996/98) 1269–1279
Maarek, Y.S., *see* **Hersovici, M.** 30 (1998) 317– 326
Mabrouk, M., *see* **Nelson, J.** 21 (1991) 175– 185
Macartney, A.J. and **G.S. Blair**, Flexible trading in distributed multimedia systems 25 (1992/93) 145– 157
Macé, P., Tensorial calculus of line and plane in homogeneous coordinates 29 (1996/98) 1695–1704
Macedo, J., *see* **José, R.J.P.** 28 (1995/96) 543– 550
Macedo, J., *see* **Rio, M.** 28 (1995/96) 535– 542
MacGregor, J., E. Lee and **F. Safayeni**, Some effects of elec-

tronic mail use on the quality of relationships between different organizational functions 28 (1995/96) 799– 809
MacKay-Lyons, B., *see* **Rau-Chaplin, A.** 29 (1996/98) 1611–1623
Mackert, L.F., *see* **Schneider, J.M.** 25 (1992/93) 43– 61
MacKie-Mason, J.K. and **H.R. Varian**, Some FAQs about usage-based pricing 28 (1995/96) 257– 265
MacNair, E.A., *see* **Yu, P.S.** 30 (1998) 215– 224
Madelaine, J., *see* **Szmurlo, M.** 29 (1996/98) 1041–1051
Maeght, Ph.E. and **A.W. Jolkovski,** Selective facsmile: the electronic text medium of the 21st century? 14 (1987) 155– 158
Mafla, E., *see* **Bhargava, B.** 21 (1991) 81– 92
Magedanz, T., *see* **Popescu-Zeletin, R.** 24 (1992) 1– 14
Magill, E.H., *see* **Tsang, S.** 30 (1998) 1421–1441
Maglio, P.P., *see* **Barrett, R.** 30 (1998) 509– 518
Maglio, P.P., *see* **Underwood, G.M.** 30 (1998) 33– 41
Magnenat Thalmann, N., *see* **Thalmann, D.** 29 (1996/98) 1601–1610
Majo-Cruzate, J., EC policy to promote high speed networking for research in Europe 21 (1991) 233– 238
Malagardis, N., COSINE implementation phase: national view 16 (1988/89) 119– 120
Malara, P., R. Tirler and **A. Trannoy**, CLAN at CRS4: an experimental Public Switched Data Network 25 (1993/94) S17– S23
Maly, K.J., H. Abdel-Wahab, R. Mukkamala, A. Gupta, A. Prabhu, H. Syed and **C.S. Vemuru,** Mosaic + XTV = Co-Review 27 (1994/95) 849– 860
Maly, K.J., E.C. Foudriat, R. Mukkamala, C.M. Overstreet and **D. Game,** Dynamic allocation of bandwidth in multichannel metropolitan area networks 25 (1992/93) 203– 223
Maly, K., C.M. Overstreet, A. Gonzalez, M. Denbar, R. Cutaran, N. Karunaratne and **C.J. Srinivas**, Use of Web technology for interactive remote instruction 30 (1998) 660– 662
Maly, K.J., *see* **Sharrock, S.M.** 18 (1989/90) 1– 18
Mañas, J.A., T. de Miguel, J. Salvachúa and **A. Azcorra,** Tool support to implement LOTOS formal specifications 25 (1992/93) 815– 839
Manasse, M.S., *see* **Broder, A.Z.** 29 (1996/98) 1157–1166
Manber, U., *see* **Bowman, C.M.** 119
Manhart, S., *see* **Nentwig, L.** 28 (1995/96) 481– 490
Mankin, A., *see* **Hoffman, E.** 27 (1994/95) 471– 478
Mannie, E. and **B. Sales,** 3L, a software laboratory for the OSI lower layers 25 (1992/93) 420– 425
Manuello, D., *see* **Berrino, C.** 25 (1992/93) 554– 560
Marais, H., *see* **Kistler, T.** 30 (1998) 259– 270
Marasli, R., P.D. Amer and **Ph.T. Conrad,** An analytic study of partially ordered transport services 29 (1996/98) 675– 699
Maray, T., *see* **Mohácsi, J.** 30 (1998) 1617–1625
Marchiori, M., The quest for correct information on the Web: hyper search engines 29 (1996/98) 1225–1235
Marchiori, M., The limits of Web metadata, and beyond 30 (1998) 1– 9
Marcus, K., *see* **Bourdin, H.** 30 (1998) 805
Marini, D., M. Rossi, L. Moltedo and **O. Salvetti,** Virtual reality and Web tools to convey the visual information of ancient monuments 29 (1996/98) 1655–1660
Marinova, D., *see* **Ingvarson, D.** 27 (1994/95) 411– 418
Maritorena, C., Presentation of a description language for office tasks 14 (1987) 187– 197
Maritsas, D.G., *see* **Papadimitriou, G.I.** 28 (1995/96) 773– 787
Markatos, E.P., Main memory caching of Web documents 28 (1995/96) 893– 905
Marks, A., *see* **Rosenberg, J.** 21 (1991) 211– 220
Marsh, S.J., *see* **Hoffman, E.** 27 (1994/95) 471– 478
Marshall, I. and **C. Roadknight,** Linking cache performance to user behaviour 30 (1998) 2123–2130
Marshall, I., *see* **Roadknight, C.** 30 (1998) 733– 735
Marsiglia, M.A., *see* **Crocetti, P.** 27 (1994/95) 117– 132
Martakos, D.I., *see* **Hadjiefthymiades, S.P.** 28 (1995/96) 1139–1148
Martakos, D.I., *see* **Hadjiefthymiades, S.P.** 29 (1996/98) 1291–1304
Martin, J., *see* **Hamilton, M.** 30 (1998) 2079–2079
Martin, J.-Y., *see* **Colin, C.** 30 (1998) 1875–1886
Martinez, D., Frame relay and SMDS services on a common ATM-based platform 25 (1992/93) 370– 376
Martinez, K., J. Cupitt and **S. Perry,** High resolution colorimetric image browsing on the Web 30 (1998) 399– 405
Martínez Mas, A., *see* **Ruiz Piñar, F.J.** 30 (1998) 1543–1549
Martínez, M.L., *see* **Felez, J.** 30 (1998) 1907–1914
Marx, B., *see* **Dodge, C.** 27 (1994/95) 1003–1008
Mascha, M. and **G. Seaman,** Interactive education: Transitioning CD-ROMs to the Web 27 (1994/95) 267– 272
Mascha, M., *see* **Goldberg, K.** 28 (1995/96) 209– 219
Mase, K. and **M. Yamamuro,** Innovations in telecommunications network management under demand uncertainty 20 (1990) 155– 161
Mason, J., Communities, networks, and education 30 (1998) 583– 586
Mason, J., XML and RDF: the promise and the reality of new Web architectures 30 (1998) 763– 765
Mason, L., *see* **Dziong, Z.** 25 (1992/93) 1065–1078

Mason, L., *see* **Xiong, Y.** 30 (1998) 835
Mason, L., *see* **Dziong, Z.** 20 (1990) 189– 196
Mathe, N., *see* **Keller, R.M.** 29 (1996/98) 1103–1114
Mathews, G.J. and **B.E. Jacobs**, Electronic management of the peer review process 28 (1995/96) 1523–1538
Mathews, G.J. and **S.S. Towheed**, NSSDC OMNIWeb: The first space physics WWW-based data browsing and retrieval system 27 (1994/95) 801– 808
Mathews, G.J. and **S.S. Towheed**, WWW-based data systems for interactive manipulation of science data 28 (1995/96) 1857–1864
Mathis, M., Windowed ping: an IP layer performance diagnostic 27 (1994/95) 449– 459
Matsubara, M.M., Evolution of CCITT numbering plans and network interworking. Public data network perspective 17 (1989) 47– 57
Matsuda, K., *see* **Ohsawa, Y.** 30 (1998) 669– 671
Matta, I. and **A.U. Shankar**, Fast time-dependent evaluation of multi-service networks 29 (1996/98) 1999–2019
Mattei, E., *see* **Deri, L.** 27 (1994/95) 1367–1385
Mattsson, M., *see* **Parnes, P.** 29 (1996/98) 1083–1090
Maurer, H. and **K. Schmaranz**, J.UCS - The next generation in electronic journal publishing 26 (1994/95) S63– S69
Maurer, H., *see* **Andrews, K.** 27 (1994/95) 919– 926
Mauw, S., The formalization of Message Sequence Charts 28 (1995/96) 1643–1657
Maxemchuk, N.F., Dispersity routing in high-speed networks 25 (1992/93) 645– 661
Mazer, M.S., *see* **Schickler, M.A.** 28 (1995/96) 1063–1074
McAllister, D.F., **Rodman, R.D.**, **Bitzer, D.L.** and **Freeman, A.S.**, Speaker independence in automated lip-sync for audio–video communication 30 (1998) 1975–1980
McCarron, M., *see* **Cahoon, C.** 29 (1996/98) 1777–1785
McCarty, L.C., *see* **Soreide, N.N.** 28 (1995/96) 189– 197
McClurg, D.C., *see* **Soreide, N.N.** 28 (1995/96) 189– 197
McDaid, E., *see* **Van der Veer, G.C.** 15 (1988) 73– 80
McGrath, R., *see* **Katz, E.D.** 27 (1994/95) 155– 164
McGregor, T., *see* **Eichmann, D.** 27 (1994/95) 281–299
McGurrin, M.F., *see* **Wang, P.T.R.** 11 (1986) 111– 120
McKenna, P., Update on EUROMATH 16 (1988/89) 150– 152
McKeown, N. and **Anderson, T.E.**, A quantitative comparison of iterative scheduling algorithms for input-queued switches 30 (1998) 2309–2326
McLoughlin, H., WEST: An Internet based education delivery and support environment 28 (1995/96) 1887–1890
Medhi, D., Models for network design, servicing and monitoring of ATM networks based on the virtual path concept 29 (1996/98) 373– 386
Medina, M., *see* **Ferreira, J.N.** 28 (1995/96) 1947–1952
Meempat, G. and **Sundacesham, M.K.**, Combined access control and routing for connection oriented traffic in high-speed networks: A two-level approach 29 (1996/98) 631–652
Meempat, G., Throughput behavior of reliable stream protocols in admission controlled bearer networks 29 (1996/98) 165– 179
Mehaoua, A. and **R. Boutaba**, Performance analysis of cell discarding techniques for best effort video communications over ATM networks 29 (1996/98) 2021–2037
Mehmet Ali, M.K., C.M. Woodside and **J.F. Hayes**, Re-assembly buffer requirements in a packet voice network 15 (1988) 109– 119
Mehmet Ali, M.K., *see* **Luan, Z.** 25 (1992/93) 183– 190
Meira Jr., W., *see* **Almeida, V.F.** 30 (1998) 601– 603
Meissner, K., *see* **Joerding, T.** 30 (1998) 649– 650
Melve, I., When to kill your siblings: cache mesh relation analysis 30 (1998) 2105–2111
Melve, I., *see* **Dixon, T.** 30 (1998) 1559–1569
Mendelzon, A.O., *see* **Arocena, G.O.** 29 (1996/98) 1305–1316
Mendoza, E., Directory services and COSINE 16 (1988/89) 44– 47
Meneses, R., *see* **Dixon, T.** 30 (1998) 1559–1569
Merakos, L.F., *see* **Reiss, L.K.** 28 (1995/96) 391– 400
Mercier, C., *see* **Forestier, M.** 14 (1987) 167– 177
Merelli, E., *see* **Caneschi, F.** 14 (1987) 297– 303
Merle, P., C. Gransart and **J.-M. Geib**, CorbaWeb: A generic object navigator 28 (1995/96) 1269–1281
Merola, S., A view of U.S. research networks 13 (1987) 249
Mertsiotakis, V., *see* **Hermanns, H.** 30 (1998) 9–23
Meulemans, N., A Yellow Pages service based on X.500 28 (1995/96) 1939–1946
Meyer, E.A. and **P.E. Murray**, Borealis Image Server 28 (1995/96) 1123–1137
Meyer, T., D. Blair and **S. Hader**, *WAXweb*: a MOO-based collaborative hypermedia system for WWW 28 (1995/96) 77– 84
Meyer, T., R. Suresh, D. Ilg and **B. Moxon**, Mosaic, HDF and EOSDIS: providing access to earth sciences data 28 (1995/96) 221– 228
Michard, A., Christophides, V., Scholl, M., Stapleton, M., Sutcliffe, D. and **Vercoustre, A.-M.**, The Aquarelle resource discovery system 30 (1998) 1185–1200
Michau, C., The IXI pilot project 17 (1989) 346– 347
Michel, S., K. Nguyen, A. Rosenstein, L. Zhang, S. Floyd and **V. Jacobson**, Adaptive web caching: towards a new global caching architecture 30 (1998) 2169–2177

Miguel, C., A. Fernández, J.M. Ortuño and **L. Vidaller,** A LOTOS based performance evaluation tool 25 (1992/93) 791– 814
Mihaila, G.A., *see* **Arocena, G.O.** 29 (1996/98) 1305–1316
Miles, K. and **M. Heijne,** User support discussion 19 (1990) 335– 338
Miles, K., *see* **Harms, J.** 19 (1990) 147– 149
Miller, E., *see* **Weibel, S.** 28 (1995/96) 239– 245
Miller, M. and **L.J. Wantz,** COOL links: ride the wave 30 (1998) 663– 665
Miller, M., *see* **Wantz, L.J.** 30 (1998) 701– 703
Miller, R.C. and **K. Bharat,** SPHINX: a framework for creating personal, site-specific Web crawlers 30 (1998) 119– 130
Miller, R.E., *see* **Choi, T.Y.** 11 (1986) 367– 381
Milliken, P., *see* **Green, D.G.** 30 (1998) 636– 637
Mills, P. and **J. Strom,** G-MING: a high performance multi-service telecommunications infrastructure for the Greater Manchester educational community 28 (1995/96) 589– 597
Mills, T., Moody, K. and **Rodden, K.,** Providing world wide access to historical sources 29 (1996/98) 1317–1325
Milosavljevic, M. and **J. Oberlander,** Dynamic catalogues on the WWW 30 (1998) 666– 668
Minden, G.J., *see* **Frost, V.S.** 11 (1986) 99– 110
Ming, W.C., and **Hamdi, M.** 29 (1996/98) 717– 722
Mishra, P., *see* **Srivastava, M.** 29 (1996/98) 2067–2090
Mishra, P.P., *see* **Ko, K.-T.** 25 (1992/93) 681– 699
Mitchell, D., *see* **Day, M.** 29 (1996/98) 905– 915
Mitra, D. and **J.B. Seery,** Dynamic adaptive windows for high speed data networks with multiple paths and propagation delays 25 (1992/93) 663– 679
Mitrou, N., S. Vamvakos and **K. Kontovasilis,** Modelling, parameter assessment and multiplexing analysis of bursty sources with hyper-exponentially distributed bursts 27 (1994/95) 1175–1192
Miyahara, H., *see* **Yokohira, T.** 12 (1986) 277– 289
Miyake, K., Traffic study on primary rate ISDN user-network interface 15 (1988) 359– 367
Mizusawa, J.-i. and **M. Akiyama,** Experiences and expectations of introducing PSTN new services 25 (1992/93) 1041–1053
Møller Nielsen, S., EuropaNET – contemporary high speed networking 25 (1993/94) S25– S34
Møller-Pedersen, B., D. Belsnes and **H.P. Dahle,** Rationale and tutorial on OSDI: An object-oriented extension of SDL 13 (1987) 97– 117
Modarressi, A.R., *see* **Skoog, R.A.** 20 (1990) 361– 368
Moens, L. and **G. Valenduc,** Assessment of impacts of telematics onto industrial structures 14 (1987) 245– 249
Mogensen, C., *see* **Röscheisen, M.** 27 (1994/95) 739– 749
Mogul, J.C., *see* **Padmanabhan, V.N.** 28 (1995/96) 25– 35
Moh, W.M., *see* **Lee, D.** 30 (1998) 1735–1748
Mohácsi, J., S. Szigeti and **T. Maray,** Testing IPv6 implementations 30 (1998) 1617–1625
Mohan, G., Ram Murthy, C.S. and **Vijayashankar, R.,** Permutation routing in wavelength-routed wrapped-around shuffle networks using fewer wavelengths 30 (1998) 2349–2358
Mohler, J.L., Migrating course materials to the World Wide Web: a case study of the Department of Technical Graphics at Purdue University 30 (1998) 1981–1990
Mojsa, T. and **Zieliski, K.,** Web enabled, CORBA Driven, Distributed VideoTalk Environment on the Java Platform 29 (1996/98) 865– 873
Moltedo, L., *see* **Marini, D.** 29 (1996/98) 1655–1660
Molter, G., *see* **Baentsch, M.** 27 (1994/95) 789– 800
Molter, G., *see* **Baentsch, M.** 28 (1995/96) 921– 930
Molva, R., *see* **Janson, P.** 22 (1991) 323– 346
Mondain-Monval, P., *see* **v. Bochmann, G.** 27 (1994/95) 571– 590
Monkewich, O., *see* **Probert, R.L.** 23 (1991/92) 417– 438
Montaser-Kohsari, A., *see* **Golkar, S.N.** 21 (1991) 187– 196
Montaser-Kohsari, G., *see* **Kirstein, P.T.** 23 (1991/92) 153– 156
Moody, K., *see* **Mills, T.** 29 (1996/98) 1317–1325
Moore, T., *see* **Beck, M.** 30 (1998) 2141–2148
Moose, Jr., R.L., *see* **Nance, R.E.** 15 (1988) 189– 202
Morgan, K., The integrated broadband communications requirements in the automotive industry and RACE project CAR 21 (1991) 321– 322
Morganti, F., PACE 90: perspectives on advanced communications for Europe. Analysis of key issues for the orientation of the work of operators, service providers, users and IT&T manufacturing industry in the framework of RACE 21 (1991) 247– 251
Mori, Y., *see* **Nishikawa, N.** 30 (1998) 205– 214
Morieux, Y.V.H., *see* **Sutherland, E.** 14 (1987) 259– 266
Morris, S., T. Suda and **T. Nguyen,** A tree LAN with collision avoidance: photonic switch design and simulated performance 17 (1989) 89– 100
Morris, S., *see* **Suda, T.** 17 (1989) 101– 110
Morrow, T., BIDS ISI: a new national bibliographic data service for the UK academic community 25 (1992/93) 448– 453
Morrow, T.M. and **A.M. Mumford,** Publishing on the network 26 (1994/95) S15– S28
Morse, M.J., *see* **Platt, A.** 23 (1991/92) 305– 316

Moschonas, C.A., *see* **Vasilakos, A.V.** 22 (1991) 235– 248
Mouftah, H.T., *see* **Awdeh, R.Y.** 27 (1994/95) 1567–1613
Mounier, J.-P., *see* **Colin, C.** 30 (1998) 1875–1886
Mount, R.P., What users want 16 (1988/89) 146– 149
Moutsopoulos, K. and **D. Gillies,** Deformable models for laparoscopic surgery simulation 29 (1996/98) 1675–1683
Moxon, B., *see* **Meyer, T.** 28 (1995/96) 221– 228
Moylan, P.J., The decoupling of estimation and control in teletraffic problems 20 (1990) 203– 207
Mueller, T.R., *see* **Sember, P.P.** 30 (1998) 682– 684
Muftic, S., Security mechanisms for computer networks (a program of CEC COST-11 Ter project) 12 (1986) 339– 344
Muftic, S., Security mechanisms for computer networks. Current results of the CEC COST-11 ter project 15 (1988) 67– 71
Muftic, S., Extended OSI security architecture. Second stage of the CEC COST-11 ter project 17 (1989) 223– 227
Muftic, S., Implementation of the Comprehensive Integrated Security System for computer networks 25 (1992/93) 469– 475
Muftic, S., *see* **Kapidzic, N.** 26 (1994/95) S187–S191
Mukherjea, S. and **J.D. Foley,** Visualizing the World-Wide Web with the Navigational View Builder 27 (1994/95) 1075–1087
Mukherjea, S., Hirata, K. and **Hara, Y.,** Towards a multimedia World-Wide Web information retrieval engine 29 (1996/98) 1181–1191
Mukherjee, A., A proof of quasi-independence of sliding window flow control and go-back-*n* error recovery under independent packet errors 28 (1995/96) 873– 887
Mukherjee, B. and **S.-K. Kao,** An improved voice–data integration protocol for fiber optic bus networks 25 (1992/93) 103– 120
Mukherjee, B., *see* **Banerjee, S.** 24 (1992) 153– 169
Mukherjee, B., *see* **Jia, F.** 27 (1994/95)) 1523–1543
Mukherjee, B., *see* **Kao, S.-k.** 27 (1994/95) 1457–1478
Mukherjee, M., *see* **Saha, A.** 29 (1996/98) 315– 324
Mukherjee, R., *see* **Hunt, G.D.H.** 30 (1998) 347– 357
Mukkamala, R., *see* **Maly, K.J.** 25 (1992/93) 203– 223
Mukkamala, R., *see* **Maly, K.J.** 27 (1994/95) 849– 860
Mullender, K.S., *see* **Bulterman, D.C.A.** 30 (1998) 519– 529
Müller, I., *see* **Jonas, K.** 28 (1995/96) 563– 573
Müller, P. and **H.P. Großmann,** UDINE – A universal document information and navigation entry 26 (1994/95) S29– S38
Mumford, A.M., Supporting multimedia in UK higher education 26 (1994/95) S93– S99
Mumford, A.M., *see* **Morrow, T.M.** 26 (1994/95) S15– S28
Munafò, M., *see* **Ajmone Marsan, M.** 29 (1996/98) 2165–2185
Münchhofen, M., *see* **Disch, A.** 30 (1998) 626– 628
Munroe, G., *see* **Cahoon, C.** 29 (1996/98) 1777–1785
Murakami, K., *see* **Saito, T.** 12 (1986) 11– 25
Muramoto, T., *see* **Susaki, S.** 30 (1998) 747– 749
Murata, M. and **H. Takagi,** Performance of token ring networks with a finite capacity bridge 24 (1992) 45– 64
Murata, M., *see* **Takagi, H.** 13 (1987) 333– 346
Murphy, S.C., P. Gunningberg and **J.P.J. Kelly,** Experiences with Estelle, LOTOS and SDL: a protocol implementation experiment 22 (1991) 51– 59
Murray, P.E., *see* **Meyer, E.A.** 28 (1995/96) 1123–1137
Murta, C.D., *see* **Almeida, V.F.** 30 (1998) 601– 603
Musher, S.L., *see* **Belov, S.D.** 30 (1998) 1657–1662
Myles, A., *see* **Perkins, C.** 27 (1994/95) 479– 491
Myskja, A., On approximations for the GI/GI/1 queue 20 (1990) 285– 295

Nabeshima, M., The Japan Cache Project: an experiment on domain cache 29 (1996/98) 987– 995
Nadreau, J.P., S.N. Goldstein and **S.T. Belyaev,** NATO Advanced Networking Moscow Workshop: context and report 26 (1994/95) S193–S199
Nagahashi, H., *see* **Imine, M.** 29 (1996/98) 1559–1570
Nagarajan, R., *see* **Chong, S.** 29 (1996/98) 2201–2212
Najm, E. and **J.-B. Stefani,** A formal semantics for the ODP computational model 27 (1994/95) 1305–1329
Najmabadi Kia, R. and **B. Sales,** Routing architectures for the support of the OSI connection mode network service 25 (1992/93) 405– 410
Najork, M.A., *see* **Brown, M.H.** 28 (1995/96) 1037–1052
Nakajima, A., Construction of optimal communication structures for weighted distributed match-making 25 (1992/93) 1291–1301
Nakatsuka, S., *see* **Yokotani, T.** 25 (1992/93) 1107–1117
Nakonieczny, M., S. Starzak, M. Stroiński and **J. Weglarz,** Polish scientific broadband network: POL34 30 (1998) 1669–1676
Naldi, M., *see* **Berger, A.W.** 30 (1998) 1327–1340
Nam, S.H. and **C.K. Un,** Performance analysis of broadcast star network with collision-avoidance switch 25 (1992/93) 169– 182
Nance, R.E. and **R.L. Moose, Jr.,** Link capacity assignment in dynamic hierarchical networks 15 (1988) 189– 202
Naor, M. and **B. Pinkas,** Secure accounting and auditing on the Web 30 (1998) 541– 550
Narahari, B., *see* **Simha, R.** 24 (1992) 405– 419

Narasimhan, S., The concentrator location problem with variable coverage 19 (1990) 1– 10
Narasimhan, S., H. Pirkul and **P. De,** Route selection in backbone data communication networks 15 (1988) 121– 133
Narayanan, N.A., A common transport based approach to network interconnection 13 (1987) 257– 267
Narten, T., *see* **Comer, D.** 14 (1987) 383– 388
Narváez, P. and **Siu, K.-Y.,** Acknowledgment bucket scheme for regulating TCP flow over ATM 30 (1998) 1775–1791
Nash, S.C., Format and protocol language (FAPL) 14 (1987) 61– 77
Neal, D., The Harvest Object Cache in New Zealand 28 (1995/96) 1415–1430
Neggers, K., European Engineering Planning Group (EEPG) — Summary Report 23 (1991/92) 63– 68
Neggers, K., Next steps for European networking 25 (1992/93) 592– 593
Neggers, K., SURFnet extends to ATM 25 (1993/94) S117–S121
Neisser, G., *see* **Hamilton, M.** 30 (1998) 2079–2079
Neisser, G., *see* **Strom, J.** 30 (1998) 1649–1656
Nelignon, C., *see* **Bachiochi, D.** 29 (1996/98) 1489–1496
Nelson, J., C. Bathe, I. Campbell-Grant, M. Coon, K. Fischer, P. Kirstein, G. Krönert and **M. Mabrouk,** The role of the PODA project in the adoption and development of ODA 21 (1991) 175– 185
Nemeth, E., *see* **Huffaker, B.** 30 (1998) 2131–2139
Nemoto, Y., *see* **Lee, H.** 29 (1996/98) 1919–1931
Nentwig, L., S. Manhart and **K. Sandkuhl,** Hotline and consulting in a metropolitan area network: the HotCon approach to integrated services 28 (1995/96) 481– 490
Neri, F., *see* **Ajmone Marsan, M.** 29 (1996/98) 653– 673
Neri, F., *see* **Ajmone Marsan, M.** 30 (1998) 1065–1082
Nessett, D.M. and **G.M. Lee,** Terminal services in heterogeneous distributed systems 19 (1990) 105– 128
Netter, K., *see* **Ter Stal, W.G.** 30 (1998) 1237–1248
Neufeld, G., Descriptive name resolution 23 (1991/92) 211– 227
Neufeld, G. and **S. Vuong,** An overview of ASN.1 23 (1991/92) 393– 415
Neufeld, G., *see* **Ng, S.** 17 (1989) 157– 173
Neumann, G., *see* **Köppen, E.** 30 (1998) 251– 258
Neuss, C. and **R.E. Kent,** Conceptual analysis of resource meta-information 27 (1994/95) 973– 984
Neuss, C., *see* **Kent, R.E.** 109
Neuss, C., *see* **Peters, R.** 27 (1994/95) 861– 870
New, D., *see* **Amer, P.D.** 25 (1992/93) 741– 760
Newman, N.K., *see* **Richter, J.A** 16 (1988/89) 64– 74
Newman, P., *see* **Ingvarson, D.** 27 (1994/95) 411– 418
Newson, D., *see* **Barnes, J.** 28 (1995/96) 1929–1937
Newth, D., *see* **Green, D.G.** 30 (1998) 636– 637
Ng, C.M., *see* **Ng, V.** 30 (1998) 1991–2001
Ng, S. and **G. Neufeld,** ubcVTP: an implementation of ISO VTP 17 (1989) 157– 173
Ng, V., Chan, S., Ng, C.M. and **Tang, F.,** Touring Hong Kong via the WWW 30 (1998) 1991–2001
Ng, V.T.Y., *see* **Chan, S.C.F.** 30 (1998) 1853–1863
Ngoh, L.H., Multicast support for group communications 22 (1991) 165– 178
Ngu, D.S.W. and **Wu, X.,** SiteHelper: a localized agent that helps incremental exploration of the World Wide Web 29 (1996/98) 1249–1255
Nguyen, G., *see* **Srivastava, M.** 29 (1996/98) 2067–2090
Nguyen, K., *see* **Michel, S.** 30 (1998) 2169–2177
Nguyen, T., *see* **Morris, S.** 17 (1989) 89– 100
Nguyen, T.-L., X. Wu and **S. Sajeev,** Object-oriented modeling of multimedia documents 30 (1998) 578– 582
Ng Wai Man, S., High speed connection between vBNS and SingAREN in Singapore 30 (1998) 723– 726
Nicholas, C.K., *see* **Rowe, K.E.** 27 (1994/95) 773– 780
Nick, A., J. Koenemann and **E. Schalück,** ELFI: information brokering for the domain of research funding 30 (1998) 1491–1500
Nicol, D., C. Smeaton and **A.F. Slater,** Footsteps: Trail-blazing the Web 27 (1994/95) 879– 885
Nielsen, H.F. and **H.W. Lie,** Towards a uniform library of common code. A presentation of the CERN World-Wide Web Library 28 (1995/96) 13– 23
Nielsen, J. and **D. Sano,** SunWeb: user interface design for Sun Microsystem's internal Web 28 (1995/96) 179– 188
Nielsen, S.M., EuropaNET – contemporary high speed networking 25 (1993/94) S25– S34
Nieto, C.M., *see* **Ruiz Piñar, F.J.** 30 (1998) 1543–1549
Nikolaidis, I., *see* **Akyildiz, I.F.** 29 (1996/98) 617– 630
Nip, W., *see* **Robertson, D.** 28 (1995/96) 155– 160
Nishida, T., *see* **Yokohira, T.** 12 (1986) 277– 289
Nishikawa, N., T. Hosokawa, Y. Mori, K. Yoshida and **H. Tsuji,** Memory-based architecture for distributed WWW caching proxy 30 (1998) 205– 214
Nishio, S., *see* **Oie, Y.** 17 (1989) 201– 221
Nishiwaki, M., *see* **Togawa, T.** 12 (1986) 175– 182
Niska, P., *see* **Reilly, J.** 29 (1996/98) 1417–1428
Nitzan, R. and **P. Gross,** The role of the U.S. GOSIP 19 (1990) 270– 274
Niwa, A. and **H. Tokunaga,** Evolution of NTT's networks towards INS 17 (1989) 37– 45
Noguchi, S., *see* **Kaniyil, J.** 25 (1992/93) 275– 294

Noguchi, S., *see* **Onozato, Y.** 12 (1986) 329– 337
Noguchi, S., *see* **Shiratori, N.** 15 (1988) 245– 267
Noguchi, S., *see* **Varakulsiripunth, R.** 11 (1986) 43– 58
Noguchi, S., *see* **Wang, X.** 22 (1991) 213– 224
Noh, T.H., D.R. Vaman and **X. Gu,** Reconfiguration for service and self-healing in ATM networks based on virtual paths 29 (1996/98) 1857–1867
Nordberg, M., *see* **Altaber, J.** 23 (1991/92) 139– 142
Norderhaug, T. and **J.M. Oberding,** Designing a web of intellectual property 27 (1994/95) 1037–1046
Norton, J., Academic network coordination policies: an outsider's view 19 (1990) 158– 161
Nussbacher, H. and **EARN-IP Group**, NJE-IP status and **strategies** 19 (1990) 312– 318
Nussbacher, H., Lessons learned from a MAN 28 (1995/96) 583– 588

Oberding, J.M., *see* **Norderhaug, T.** 27 (1994/95) 1037–1046
Oberlander, J., *see* **Milosavljevic, M.** 30 (1998) 666– 668
Oestreicher, L., *see* **Van der Veer, G.C.** 15 (1988) 73– 80
Ofek, Y., *see* **Cohen, R.** 27 (1994/95)) 1633–1649
Ofek, Y., *see* **Li, C.-S.** 30 (1998) 2359
Ofek, Y., *see* **Simha, R.** 21 (1991) 109– 120
Ohsawa, Y., K. Matsuda and **M. Yachida**, Personal and temporary hyper bridges: 2-D interface for undefined topics 30 (1998) 669– 671
Ohtake, T., *see* **Sakata, T.** 29 (1996/98) 1137–1146
Oie, Y., S. Nishio and **T. Hasegawa,** Throughput analysis of blocked access tree algorithms with mini-slots 17 (1989) 201– 221
Oikarinen, J.T. and **Jyrkinen, L.J.**, Maximum intensity projection by 3-dimensional seed filling in view lattice 30 (1998) 2003–2014
Oksanen, J., *see* **Kaarela, K.** 27 (1994/95) 751– 764
Olofsson, S., *see* **Altaber, J.** 23 (1991/92) 139– 142
Olthoff, R. and **J. Truijens,** Editorial (to special issue ''4th European Networkshop, 16–18 May 1988, Les Diablerets, Switzerland'') 16 (1988/89) 1– 3
O'Mahony, D. and **N. Weldon,** X.500 directory services support for Electronic Data Interchange (EDI) 27 (1994/95) 691– 701
Omidyar, C.G., G. Pujolle and **O. Spaniol**, Modelling of Wired and Wireless ATM Networks (Guest Editorial) 29 (1996/98) 1997–1998
Ong, L.Y. and **M. Schwartz**, Design of resource control protocols for Release 2/3 Broadband ISDN services 28 (1995/96) 269– 282
Onions, J., ISODE: in support of migration 17 (1989) 362– 366
Onozato, Y., J. Liu, S. Shimamoto and **S. Noguchi,** Effect of propagation delays on ALOHA systems 12 (1986) 329– 337
Onozato, Y., *see* **Kaniyil, J.** 25 (1992/93) 275– 294
Onozato, Y., *see* **Wang, X.** 22 (1991) 213– 224
Onvural, R., *see* **Peyravian, M.** 29 (1996/98) 237– 247
Onvural, R.O., H. Sandick and **R. Cherukuri**, Structure and use of signaling in B-ISDNs 28 (1995/96) 307– 323
Orda, A. and **R. Rom,** Multihoming in computer networks: A topology-design approach 18 (1989/90) 133– 141
O'Reilly, M. and **K. Patterson**, Assessing learners through the WWW 30 (1998) 727– 729
O'Reilly, P., Burst and fast packet switching: performance comparisons 13 (1987) 21– 32
Orsatti, D., *see* **Iliadis, I.** 30 (1998) 1763–1774
Ortega, A., *see* **Kangasharju, J.** 30 (1998) 2113–2121
Ortuño, J.M., *see* **Miguel, C.** 25 (1992/93) 791– 814
Overstreet, C.M., *see* **Maly, K.** 30 (1998) 660– 662
Overstreet, C.M., *see* **Maly, K.J.** 25 (1992/93) 203– 223
Owezarski, P., *see* **Diaz, M.** 29 (1996/98) 745– 758

Paccini, J.-F., *see* **Solomon, C.** 23 (1991/92) 79– 85
Pachl, J. and **L. Casey,** A robust ring transmission protocol 13 (1987) 313– 321
Pacifici, G., *see* **Pattavina, A.** 15 (1988) 31– 45
Padmanabhan, V.N. and **J.C. Mogul**, Improving HTTP latency 28 (1995/96) 25– 35
Paepcke, A., R.D. Crawford, R. Jamp, C.A. Freeman and **F.J. Lee,** Chipnet: an optical network of terminals and workstations 15 (1988) 203– 215
Paepcke, A., *see* **Rodriguez-Mula, G.** 30 (1998) 736– 738
Page, L., *see* **Brin, S.** 30 (1998) 107– 117
Page, L., *see* **Cho, J.** 30 (1998) 161– 172
Palazzi, P., *see* **Aimar, A.** 28 (1995/96) 99– 107
Palazzo, S., *see* **Lombardo, A.** 25 (1992/93) 1119–1126
Pallares, M., COSINE IXI status and plans 19 (1990) 294– 298
Palme, J., Distributed computer conferencing 14 (1987) 137– 145
Palme, J., *see* **Benford, S.** 25 (1992/93) 933– 946
Panda, D.K. and **T. Viswanathan,** A parallel-serial binary arbitration scheme for collision-free multi-access techniques 15 (1988) 217– 223
Pandey, B.D. and **S.S. Pathak,** On communicating sequential processes 27 (1994/95) 1333–1348
Pandya, R. and **M. Cullum,** Planning for circuit-switched data services in the ISDN era: interworking solutions and standards 20 (1990) 57– 63
Pandzic, I.S., *see* **Thalmann, D.** 29 (1996/98) 1601–1610

Panno, D., *see* **Lombardo, A.** 25 (1992/93) 1119–1126
Pant, S. and **C. Hsu**, Business on the Web: strategies and economics 28 (1995/96) 1481–1492
Pantano, P., *see* **Bilotta, E.** 27 (1994/95) 905– 909
Pao, C., *see* **Lau, R.** 29 (1996/98) 1385–1393
Paoli, J., Cooperative work on the network: edit the WWW! 27 (1994/95) 841– 847
Paoli, J., Extending the Web's tag set using SGML: Authoring new tags with Grif Symposia 28 (1995/96) 1095–1104
Papadimitriou, G.I. and **D.G. Maritsas**, WDM star networks: hybrid random access and reservation protocols with high throughput and low delay 28 (1995/96) 773– 787
Papanikos, I., *see* **Chrysochos, I.** 28 (1995/96) 701– 707
Pape, D.F., Communication within an industrial enterprise 14 (1987) 237– 244
Park, B.-S., *see* **Kang, C.-S.** 27 (1994/95) 1387–1398
Park, C., *see* **Choi, J.** 30 (1998) 1865–1874
Park, C.G., *see* **Choi, B.D.** 29 (1996/98) 781– 795
Park, D.-G., Park, S.-H., Lee, H.-H. and **Cho, H.-G.**, An automatic crowd generation system using image processing techniques 30 (1998) 2015–2023
Park, J.L., Quality of service requirements in packet switching public data networks 20 (1990) 3– 6
Park, S.-H., *see* **Park, D.-G.** 30 (1998) 2015–2023
Parnes, P., Mattsson, M., Synnes, K. and **Schefström, D.,** The mWeb presentation framework 29 (1996/98) 1083–1090
Pártl, T., *see* **Dingle, A.** 28 (1995/96) 907– 920
Partridge, C., Protocols for high-speed networks: some questions and a few answers 25 (1992/93) 1019–1028
Parulkar, G.M., *see* **Buddhikot, M.M.** 27 (1994/95) 503– 517
Pascal, O., The STAR programme 13 (1987) 245
Pascal, O., The Apollo project 13 (1987) 247
Patel, A. and **M. Purser,** The design of a small packet-switching node 11 (1986) 287– 295
Patel, B., F. Schaffa and **M. Willebeek-LeMair**, The Helix switch: a single chip cell switch design 28 (1995/96) 1791–1807
Paterakis, M., *see* **Jing, W.** 27 (1994/95) 653– 675
Pathak, S.S., *see* **Pandey, B.D.** 27 (1994/95) 1333–1348
Patow, G.A. and **C.A. Delrieux,** Environment mapped refraction models for low cost scan-line rendering 29 (1996/98) 1727–1736
Pattavina, A. and **G. Pacifici,** Performance evaluation of ring networks supporting a packet voice service 15 (1988) 31– 45
Pattavina, A., *see* **Bianchi, G.** 28 (1995/96) 835– 853
Pattavina, A., *see* **Giacomazzi, P.** 29 (1996/98) 1953–1968
Patten, T., *see* **Hutchinson, N.** 11 (1986) 1– 14
Patterson, J.F., *see* **Day, M.** 29 (1996/98) 905– 915
Patterson, K., *see* **O'Reilly, M.** 30 (1998) 727– 729
Paulin, M., *see* **Kardassevitch, C.** 30 (1998) 1961–1974
Pavett, S., N. Samarawera, N.M. Hamilton and **G. Fairhurst**, Video Medi-CAL: supporting MPEG-2 media based computer assisted learning on an intranet 30 (1998) 672– 675
Paximadis, C.T., *see* **Vasilakos, A.V.** 22 (1991) 235– 248
Pays, P.-A. and **F. de Comarmond**, An intermediation and payment system technology 28 (1995/96) 1197–1206
Pays, P.-A., *see* **Touvet, J.-C.** 26 (1994/95) S39– S48
Peeters, M., Electronic mail reliability project 19 (1990) 367– 372
Pehrson, B., Protocol verification for OSI 18 (1989/90) 185– 201
Pehrson, B. and **S. Pink,** Multimedia and high speed networking in MultiG 21 (1991) 315– 319
Pehrson, B., *see* **Bolognesi, T.** 22 (1991) 61– 77
Pehrson, B., *see* **Gauffin, L.** 24 (1992) 119– 130
Pelleg, D., *see* **Hersovici, M.** 30 (1998) 317– 326
Peltier, J.P. and **U. Posthuma de Boer,** European aeronautical supercomputing network (EASNet): a presentation 21 (1991) 323– 331
Pentcheva-Spiridonov, V., *see* **Horsch, A.** 28 (1995/96) 1971–1977
Perez, M., *see* **Hoffman, E.** 27 (1994/95) 471– 478
Perkins, C., A. Myles and **D.B. Johnson,** IMHP: A mobile host protocol for the Internet 27 (1994/95) 479– 491
Perret, S. and **A. Duda**, Mobile assistant programming for efficient information access on the WWW 28 (1995/96) 1373–1383
Perrochon, L. and **R. Fischer,** IDLE: Unified W3-access to interactive information servers 27 (1994/95) 927– 938
Perrone, C., D. Clark and **A. Repenning**, WebQuest: Substantiating education in edutainment through interactive learning games 28 (1995/96) 1307–1319
Perros, H.G., *see* **Karlsson, J.M.** 24 (1992) 93– 103
Perry, S., *see* **Martinez, K.** 30 (1998) 399– 405
Peters, M., *see* **Doeringer, W.** 29 (1996/98) 137– 155
Peters, R. and **C. Neuss,** CrystalWeb — A distributed authoring environment for the World-Wide Web 27 (1994/95) 861– 870
Petit, G.H., *see* **Steyaert, B.** 25 (1992/93) 1227–1241
Petrenko, A., G. v. Bochmann and **M. Yao,** On fault coverage of tests for finite state specifications 29 (1996/98) 81– 106
Peyravian, M. and **C.-T. Lea**, Deriving deadlock and unspecified reception free protocol converters from message mapping sets 28 (1995/96) 1831–1844
Peyravian, M. and **Kshemkalyani, A.D.**, Decentralized network connection preemption algorithms 30 (1998) 1029–1043

Peyravian, M. and **R. Onvural,** Algorithm for efficient generation of link-state updates in ATM networks 29 (1996/98) 237– 247
Pfeifer, U., N. Fuhr and **T. Huynh,** Searching structured documents with the enhanced retrieval functionality of free WAIS-sf and SFgate 27 (1994/95) 1027–1036
Pfeiffenberger, H., *see* **Dodge, C.** 27 (1994/95) 1003–1008
Phalippou, M., *see* **Cavalli, A.R.** 29 (1996/98) 3– 14
Phanouriou, C. and **Abrams, M.,** Transforming command-line driven systems to Web applications 29 (1996/98) 1497–1505
Phelan, J., *see* **Karshmer, A.I.** 15 (1988) 135– 151
Philippart, E., The paradigms of natural sciences dealing with information and communication in sociology 14 (1987) 271– 278
Phillips, J., *see* **Wray, III, R.E.** 28 (1995/96) 167– 178
Phung, V.P.T. and **R. Breault,** On the unpredictable behavior of DQDB 24 (1992) 145– 152
Pieper, M. and **Hermsdorf, D.,** BSCW for disabled teleworkers: usability evaluation and interface adaptation of an internet-based cooperation environment 29 (1996/98) 1479–1487
Pignatelli, R., *see* **Lombardo, A.** 25 (1992/93) 1119–1126
Piguet, P., Storage and retrieval of documentation at the United Nations 22 (1991) 87– 102
Pihl, J., A global system for seismic data exchange 13 (1987) 217
Pikrakis, A., *see* **DeRoure, D.** 30 (1998) 624– 625
Pink, S., *see* **Pehrson, B.** 21 (1991) 315– 319
Pinkas, B., *see* **Naor, M.** 30 (1998) 541– 550
Pinse, D. and **P. Sylvester,** An electronic mail gateway between EARN/INTERNET and the IBM internal network 25 (1992/93) 526– 530
Pióro, M., J. Lubacz and **U. Körner,** Traffic engineering problems in multiservice circuit switched networks 20 (1990) 127– 136
Piquet, J.-M., An introduction to SPAG services 13 (1987) 181– 185
Pires, L.F., *see* **Quartel, D.A.C.** 29 (1996/98) 413– 436
Pirkul, H., *see* **Narasimhan, S.** 15 (1988) 121– 133
Pitkow, J., In search of reliable usage data on the WWW 29 (1996/98) 1343–1355
Pitkow, J. and **M. Recker,** Results from the First World-Wide Web user survey 27 (1994/95) 243– 254
Pitkow, J.E., Summary of WWW characterizations 30 (1998) 551– 558
Pitkow, J.E. and **R.K. Jones,** Supporting the Web: A distributed hyperlink database system 28 (1995/96) 981– 991
Pitkow, J.E. and **R.K. Jones,** Towards an intelligent publishing environment 27 (1994/95) 729– 737
Pitkow, J.E. and **M.M. Recker,** Using the Web as a survey tool: results from the second WWW user survey 27 (1994/95) 809– 822
Pitkow, J.E., *see* **Catledge, L.D.** 27 (1994/95) 1065–1073
Planes, M., *see* **Cullen, J.** 25 (1992/93) 377– 383
Platt, A. and **M.J. Morse,** Traffic management in frame relay networks 23 (1991/92) 305– 316
Plattner, B., *see* **Lubich, H.** 16 (1988/89) 48– 54
Plattner, B., The Swiss national network for research and education (SWITCH) 16 (1988/89) 75– 82
Plattner, B.R., Guest Editorial 27 (1994/95) 343– 344
Pocock, R.A., Communicating in the global office 14 (1987) 251– 258
Poggiolini, P., *see* **Ajmone Marsan, M.** 30 (1998) 1065–1082
Pointek, J., F. Shull, R. Tesoriero and **A. Agrawala,** NetDyn revisited: a replicated study of network dynamics 29 (1996/98) 831– 840
Poirier, S., *see* **v. Bochmann, G.** 27 (1994/95) 571– 590
Polyzos, G., *see* **Albanese, C.S.** 29 (1996/98) 535– 537
Popescu, A. and **R.P. Singh,** An alternative solution to the electro-optic and service bottleneck problems in integrated multi-Gbit/s LANs: the SUPERLAN architecture 25 (1992/93) 1089–1105
Popescu-Zeletin, R., From broadband ISDN to multimedia computer networks 18 (1989/90) 47– 54
Popescu-Zeletin, R. and **T. Magedanz,** Applying open network provision to ISDN and intelligent networks 24 (1992) 1– 14
Pordesch, U., Negotiating security among end users: concept and test in a simulation study for the public health service 30 (1998) 1597–1605
Posch, R., *see* **Lipp, P.** 25 (1992/93) 496– 500
Posner, E.C., *see* **Doganata, Y.N.** 20 (1990) 455– 464
Post, R., *see* **Shrikumar, H.** 27 (1994/95) 375– 385
Post, R.D.J., *see* **De Bra, P.M.E.** 27 (1994/95) 183– 192
Posthuma de Boer, U., *see* **Peltier, J.P.** 21 (1991) 323– 331
Poston, T., *see* **Venkataraman, K.** 29 (1996/98) 1625–1633
Potmesil, M., Maps alive: viewing geospatial information on the WWW 29 (1996/98) 1327–1342
Potter, P.G. and **M. Zukerman,** A discrete shared processor model for DQDB 20 (1990) 217– 222
Potter, P.G., *see* **Zukerman, M.** 20 (1990) 261– 270
Pouzin, L., Ten years of OSI—maturity or infancy? 23 (1991/92) 11– 14
Prabhu, A., *see* **Maly, K.J.** 27 (1994/95) 849– 860

Pralle, H., *see* **Fromme, M.** 30 (1998) 1457–1465
Pralle, H., *see* **Grimm, C.** 30 (1998) 1687–1695
Pralle, H., *see* **Grimm, C.** 30 (1998) 2269–2278
Pratt, D., *see* **Barnes, J.** 28 (1995/96) 1929–1937
Présent, D., C. Fayet and **G. Pujolle,** An optimal solution for ATM switches 29 (1996/98) 2039–2052
Press, J., Software based encryption for local area networks 17 (1989) 187– 192
Prévost, J., The European high speed networking initiative project 17 (1989) 354– 357
Prévost, J., The French national research and technology network 21 (1991) 343– 345
Pringle, G., L. Allison and **D.L. Dowe**, What is a tall poppy among Web pages? 30 (1998) 369– 377
Probert, R.L. and **O. Monkewich,** TTCN: the international notation for specifying tests of communications systems 23 (1991/92) 417– 438
Probert, R.L., H. Ural and **M.W.A. Hornbeek,** A comprehensive software environment, for developing standardized conformance test suitesd 18 (1989/90) 19– 29
Probert, R.L., *see* **Logrippo, L.** 24 (1992) 199– 201
Probert, R.L., *see* **Ural, H.** 11 (1986) 183– 202
Proebsting, T.A., *see* **Hartman, J.H.** 29 (1996/98) 1129–1135
Proença, C.B., *see* **Conci, A.** 30 (1998) 1887–1895
Próspero dos Santos, M., *see* **Heleno, P.** 30 (1998) 1923–1932
Protonotarios, E.N., *see* **Anagnostou, M.E.** 24 (1992) 335– 344
Puges, P., *see* **Burg, F.M** 16 (1988/89) 395– 404
Pujolle, G., *see* **Atmaca, T.** 24 (1992) 421– 434
Pujolle, G., *see* **Omidyar, C.G.** 29 (1996/98) 1997–1998
Pujolle, G., *see* **Présent, D.** 29 (1996/98) 2039–2052
Pullen, J.M., Networking for Distributed Virtual Simulation 27 (1994/95) 387– 384
Punch, W.F., *see* **Wulfekuhler, M.R.** 29 (1996/98) 1147–1156
Purser, M., COSINE Sub-Project P8: security services 25 (1992/93) 476– 482
Purser, M., *see* **Patel, A.** 11 (1986) 287– 295
Pusterhofer, A., *see* **Schmid, U.** 27 (1994/95) 1615–1632
Put, F., *see* **Desaranno, S.** 26 (1994/95) S129–S138
Putz, S., Interactive information services using World

Quartel, D.A.C., L.F. Pires, M.J. van Sinderen, H.M. Franken and **C.A. Vissers,** On the role of basic design concepts in behaviour structuring 29 (1996/98) 413– 436
Quemada, J., On tools for FDTs 25 (1992/93) 719– 721
Quentin-Baxter, M., Hypermedia learning environments limit access to information 30 (1998) 587– 590
Quint, V., C. Roisin and **I. Vatton,** A structured authoring environment for the World-Wide Web 27 (1994/95) 831– 840
Quirós, R., *see* **Huerta, J.** 30 (1998) 1941–1950

Rabinovich, M., J. Chase and **S. Gadde**, Not all hits are created equal: cooperative proxy caching over a wide-area network 30 (1998) 2253–2259
Rabinowitz, J.L., *see* **Keller, R.M.** 29 (1996/98) 1103–1114
Rabitti, F., *see* **Amato, G.** 30 (1998) 604– 606
Radeke, E., *see* **Faux, I.** 30 (1998) 1249–1262
Radhakrishnan, S., S.V. Raghavan and **A.K. Agrawala**, A flexible traffic shaper for high speed networks: design and comparative study with leaky bucket 28 (1995/96) 453– 469
Raes, J., *see* **Janssens, G.K** 14 (1987) 365– 372
Rafiq, O. and **Cavalli, A.R.**, Guest Editorial (to special issue on Protocol Testing) 29 (1996/98) 1– 2
Rafiq, O., *see* **v. Bochmann, G.** 29 (1996/98) 731– 733
Raggett, D., A review of the HTML + document format 27 (1994/95) 135– 145
Raggett, D., Adding style and behaviour to Web pages with a dash of Spice 30 (1998) 676– 678
Raggett, D., Clean up your Web pages with HP's HTML Tidy 30 (1998) 730– 732
Raggett, D. and **D. Batsalle**, Adding math to Web pages with EzMath 30 (1998) 679– 681
Raghavan, P., *see* **Chakrabarti, S.** 30 (1998) 65– 74
Raghavan, S.V., D. Vasukiammaiyar and **G. Haring,** Hierarchical approach to building generative networkload models 27 (1994/95) 1193–1206
Raghavan, S.V., *see* **Kripanandan, R.S.** 27 (1994/95) 591– 610
Raghavan, S.V., *see* **Radhakrishnan, S.** 28 (1995/96) 453– 469
Raghavendra, C.S. and **J.A. Silvester,** A survey of multi-connected loop topologies for local computer networks 11 (1986) 29– 42
Raisamo, R., *see* **Brown, M.H.** 29 (1996/98) 1577–1586
Rajagopalan, S., *see* **Chakrabarti, S.** 30 (1998) 65– 74
Rajnovic, D., *see* **Ferreira, J.N.** 28 (1995/96) 1947–1952
Ramakrishnan, K.K., *see* **Lee, D.** 30 (1998) 1735–1748
Ramamritham, K., Channel characteristics in local-area hard real-time systems 13 (1987) 3– 13
Ramamurthy, G. and **B. Sengupta**, An analysis of a variable bit rate multiplexer using loss priorities 28 (1995/96) 411– 423

Ramamurthy, G. and **B. Sengupta**, A predictive congestion control policy for broadband integrated wide area networks 28 (1995/96) 811– 834
Raman, T.V., Cascaded speech style sheets 29 (1996/98) 1377–1383
Ramanathan, S., *see* **Venkat Rangan, P.** 27 (1994/95) 549– 565
Ramaswami, V. and **W. Willinger**, Efficient traffic performance strategies for packet multiplexers 20 (1990) 401– 407
Ram Murthy, C.S., *see* **Mohan, G.** 30 (1998) 2349–2358
Ramoni, M., *see* **Riva, A.** 28 (1995/96) 953– 961
Rangan, P.V., Video conferencing, file storage, and management in multimedia computer systems 25 (1992/93) 901– 919
Rangarajan, S., S. Yajnik and **P. Jalote**, WCP – a tool for consistent on-line update of documents in a WWW server 30 (1998) 327– 336
Rankine, L.J., A view from the International Organization for Standardization (ISO) 12 (1986) 231– 233
Raskutti, B., *see* **Sember, P.P.** 30 (1998) 682– 684
Rasmussen, C. and **J. Sorensen**, A simple call acceptance procedure in an ATM network 20 (1990) 197– 202
Rau-Chaplin, A., B. MacKay-Lyons, T. Doucette, J. Gajewski, X. Hu and **P. Spierenburg**, Graphics support for a World-Wide-Web based architectural design service 29 (1996/98) 1611–1623
Ravindran, K., *see* **Chanson, S.T.** 15 (1988) 159– 175
Rayner, D., OSI conformance testing 14 (1987) 79– 98
Recker, M., *see* **Pitkow, J.** 27 (1994/95) 243– 254
Recker, M.M., *see* **Pitkow, J.E.** 27 (1994/95) 809– 822
Reddy, M. and **G.P. Fletcher**, Exp1: a comparison between a simple adaptive caching agent using document life histories and existing cache techniques 30 (1998) 2149–2153
Reed, D.A., *see* **Lamm, S.E.** 28 (1995/96) 1457–1468
Reed, R., Methodology for real time systems 28 (1995/96) 1685–1701
Rees, O., *see* **Edwards, N.** 29 (1996/98) 927– 938
Reich, S., *see* **DeRoure, D.** 30 (1998) 624– 625
Reijs, V., RARE/COSINE connectionless mode network service pilot 25 (1992/93) 426– 430
Reilly, J., Niska, P., Deri, L. and **Gantenbien, D.**, Enabling mobile network managers 29 (1996/98) 1417–1428
Reiss, L.K. and **L.F. Merakos**, Performance analysis of an adaptive bandwidth reservation scheme for ATM virtual path traffic 28 (1995/96) 391– 400
Reitan, P.J., 3D visualization of color image histograms 30 (1998) 2025–2035
Rémion, Y., *see* **Lucas, L.** 29 (1996/98) 1737–1744
Remortel, J. van, The Belgian ISDN plans in a European perspective 13 (1987) 168– 169
Ren, W., Siu, K.-Y., Suzuki, H. and **Shinohara, M.**, Multipoint-to-multipoint ABR service in ATM 30 (1998) 1793–1810
Repenning, A., *see* **Perrone, C.** 28 (1995/96) 1307–1319
Rerle, R., *see* **Sokolov, N.** 25 (1992/93) 1165–1173
Resnick, P., *see* **Chu, Y.-H.** 29 (1996/98) 953– 964
Reynard, G., *see* **Benford, S.** 29 (1996/98) 1751–1761
Reynolds, J.K., The helminthiasis of the Internet 22 (1991) 347– 361
Ribelles, J., *see* **Huerta, J.** 30 (1998) 1941–1950
Richards, P., *see* **Woodruff, G.** 20 (1990) 351– 360
Richards, P.S., Rapid service delivery and customization in a developing network infrastructure 25 (1992/93) 103–1201
Richmond, A., Enticing online shoppers to buy – A human behavior study 28 (1995/96) 1469–1480
Richter, J.A. and **N.K. Newman**, The role of the European Commission in telecommunications: the CEC Green Paper and beyond 16 (1988/89) 64– 74
Riedl, J., *see* **Bhargava, B.** 21 (1991) 81– 92
Rifkin, A., *see* **Khare, R.** 30 (1998) 389– 397
Rifkin, A., *see* **Khare, R.** 30 (1998) 651– 653
Rihaczek, K., Main TeleTrusT principles for open and secure communication systems to convey to relevant standardisation bodies 12 (1986) 129– 131
Rihaczek, K., Teletrust 13 (1987) 235– 239
Rikkert de Koe, O.B.P., *see* **Schepers, H.J.J.H.** 23 (1991/92) 241– 251
Rikkert de Koe, O.B.P., *see* **Schepers, H.J.J.H.** 23 (1991/92) 253– 266
Rio, M., A. Costa, J. Macedo and **V. Freitas**, A framework for broadcasting and management of URIs 28 (1995/96) 535– 542
Ristori, G., *see* **De Nicola, R.** 25 (1992/93) 761– 778
Riva, A. and **M. Ramoni**, LispWeb: A specialized HTTP server for distributed AI applications 28 (1995/96) 953– 961
Rizzi, A., *see* **Ciancarini, P.** 30 (1998) 225– 237
Roadknight, C. and **I. Marshall**, Variations in cache behavior 30 (1998) 733– 735
Roadknight, C., *see* **Marshall, I.** 30 (1998) 2123–2130
Robertazzi, T., *see* **Huang, H.-Y.** 27 (1994/95) 1399–1407
Roberto, V., *see* **Della Mea, V.** 28 (1995/96) 1085–1094
Roberts, J.W., Traffic control in the B-ISDN 25 (1992/93) 1055–1064
Roberts, M.M., The university role in the United States National Research and Education Network 25 (1992/93) 512– 517
Robertson, D., W. Johnston and **W. Nip**, Virtual frog dissection: interactive 3D graphics via the Web 28 (1995/96) 155– 160
Robinson, D., Remote Procedure Call: a stepping stone towards ODP 23 (1991/92) 191– 194

Robinson, D.A., C.R. Lester and **N.M. Hamilton**, Delivering computer assisted learning across the WWW 30 (1998) 301– 307
Robles, E., *see* **Breiter, F.** 30 (1998) 1627–1635
Rodden, K., *see* **Chalmers, M.** 30 (1998) 359– 367
Rodden, K., *see* **Mills, T.** 29 (1996/98) 1317–1325
Rodeheffer, T.L., Experience with Autonet 25 (1992/93) 623– 644
Rodman, R.D., *see* **McAllister, D.F.** 30 (1998) 1975–1980
Rodríguez, C., *see* **Algayres, B.** 25 (1992/93) 779– 790
Rodrigues, M.A.F., Gillies, D.F. and **Charters, P.**, Modelling and simulation of the tongue during laryngoscopy 30 (1998) 2037–2045
Rodríguez-Mulà, G., H. García-Molina and **A. Paepcke**, Collaborative value filtering on the Web 30 (1998) 736– 738
Rodriguez, P., K.W. Ross and **E.W. Biersack**, Improving the WWW: caching or multicast? 30 (1998) 2223–2243
Rogers, S., *see* **Wray, III, R.E.** 28 (1995/96) 167– 178
Roisin, C., *see* **Bonhomme, S.** 28 (1995/96) 1075–1084
Roisin, C., *see* **Quint, V.** 27 (1994/95) 831– 840
Rokita, P., Application of image processing techniques in computer graphics algorithms 29 (1996/98) 1705–1714
Rokita, P., Compositing computer graphics and **real world video sequences** 30 (1998) 2047–2057
Rom, R., *see* **Cidon, I.** 12 (1986) 1– 10
Rom, R., *see* **Gopal, I.** 27 (1994/95) 677– 689
Rom, R., *see* **Orda, A.** 18 (1989/90) 133– 141
Romano, G.A., *see* **Abba, L.** 19 (1990) 350– 355
Röscheisen, M., C. Mogensen and **T. Winograd,** Beyond browsing: shared comments, SOAPs, trails, and on-line communities 27 (1994/95) 739– 749
Röscheisen, M., *see* **Kamiya, K.** 28 (1995/96) 1157–1174
Rose, M.T. and **D.E. Cass,** OSI transport services on top of the TCP 12 (1986) 159– 173
Rosenberg, C. and **A. Le Bon,** Performance models for hybrid broadband networks 25 (1992/93) 1155–1163
Rosenberg, C., *see* **Guillemin, F.** 27 (1994/95) 703– 726
Rosenberg, J., M. Sherman, A. Marks and **J. Akkerhuis,** Some comments on using ODA 21 (1991) 211– 220
Rosenne, D., Leased digital data lines service: Israeli approach 18 (1989/90) 143– 146
Rosenstein, A., *see* **Michel, S.** 30 (1998) 2169–2177
Ross, K.W., *see* **Rodriguez, P.** 30 (1998) 2223–2243
Rossi, M., *see* **Marini, D.** 29 (1996/98) 1655–1660
Rossman, J., *see* **Goldberg, K.** 28 (1995/96) 209– 219
Roth, R., *see* **de Meer, J.** 23 (1991/92) 363– 392
Rothenberg, N., *see* **Goldberg, K.** 28 (1995/96) 209– 219
Rothermel, K., A communication mechanism supporting actions 15 (1988) 97– 108
Rouaix, F., A Web navigator with applets in Caml 28 (1995/96) 1365–1371
Rousseau, B. and **M. Ruggier,** Writing documents for paper and WWW 27 (1994/95) 205– 214
Rousseau, B., *see* **Aimar, A.** 28 (1995/96) 99– 107
Rousseau, F. and **A. Duda**, Synchronized multimedia for the WWW 30 (1998) 417– 429
Rousskov, A. and **D. Wessels**, Cache digests 30 (1998) 2155–2168
Rowe, F., *see* **Claisse, G.** 14 (1987) 207– 219
Rowe, K.E. and **C.K. Nicholas,** Reliability of WWW name servers 27 (1994/95) 773– 780
Rowe, L.A., *see* **Woodruff, A.** 28 (1995/96) 963– 980
Rubin, I. and **K.K. Chang,** Voice quality control under dynamic encoding algorithms in ATM networks 29 (1996/98) 343– 355
Rubin, I. and **J.C.-H. Wu,** Analysis of an FDDI network supporting stations with single-packet buffers 29 (1996/98) 249– 266
Rubin, R., *see* **Turman, B.** 16 (1988/89) 187– 196
Rudin, H., Guest editorial 22 (1991) 321
Rudin, H. and **C.H. West,** Formal protocol specification and conformance testing: four tutorial papers (editorial to special issue on ''Protocol Specification and Testing'') 14 (1987) 1– 2
Rudin, H., The ATM-Asynchronous Transfer Mode 24 (1992) 277– 278
Rudin, H., *see* **Courtiat, J.-P.** 28 (1995/96) 1845–1855
Rudin, H., *see* **Heinzmann, P.** 22 (1991) 83– 85
Rudnicki, P., *see* **Dobosiewicz, W.** 25 (1992/93) 1205–1225
Rudolph, E., P. Graubmann and **J. Grabowski**, Tutorial on Message Sequence Charts 28 (1995/96) 1629–1641
Ruggier, M., *see* **Aimar, A.** 28 (1995/96) 99– 107
Ruggier, M., *see* **Rousseau, B.** 27 (1994/95) 205– 214
Ruiz Piñar, F.J., Á. Fernández del Campo, C.M. Nieto, L. Vidaller Sisó, A. Martínez Mas and **J.A. Carral Pelayo**, Multimedia systems based on satellite technology 30 (1998) 1543–1549
Rumeau, R., *see* **Gelard, P.** 25 (1993/94) S99– S103
Russell, D., High-level security architectures and the Kerberos system 19 (1990) 201– 214
Russell, M. and **T. Hopkins**, CFTP: a caching FTP server 30 (1998) 2211–2222
Rutherford, P., *see* **Gibson, J.** 30 (1998) 718– 720
Rutledge, L., *see* **Bulterman, D.C.A.** 30 (1998) 519– 529
Rutledge, L., *see* **van Ossenbruggen, J.** 30 (1998) 694– 696
Rydén, T., Optimal overload control of systems with access buffers — a difficult problem 30 (1998) 9–232699
Ryley, A., *see* **Cusworth, S.D.** 18 (1989/90) 323– 333
Ryley, A., *see* **Senior, J.M.** 13 (1987) 275– 289

Rysavy, F.R., Users and services providers: interoperability 25 (1992/93) 339– 343
Rzasa, W., *see* **Jacobs, S.** 28 (1995/96) 1385–1395

Saadawi, T., *see* **Habib, I.** 29 (1996/98) 325– 334
Saadawi, T.N., *see* **Habib, I.W.** 27 (1994/95) 1411–1427
Sabin, A., *see* **Faux, I.** 30 (1998) 1249–1262
Sablatash, M., *see* **Cheung, T.-Y.** 16 (1988/89) 299– 310
Sabnani, K. and **A. Dahbura**, A protocol test generation procedure 15 (1988) 285– 297
Sabnani, K., *see* **Aggarwal, S.** 18 (1989/90) 165
Safayeni, F., *see* **MacGregor, J.** 28 (1995/96) 799– 809
Saha, A., M. Mukherjee and **P. Dhar**, Design and implementation of a Network Service Access Point (NSAP) for OSI-compatibility 29 (1996/98) 315– 324
Saintillan, Y., *see* **Golmie, N.** 30 (1998) 1749–1761
Saint-Remi, J., Data networks and their users 14 (1987) 159– 165
Saito, H., Analysis of measured loss probability and grade-of-service in ISDNs 15 (1988) 87– 96
Saito, H., Resource management and charging in ATM networks 28 (1995/96) 641– 644
Saito, H., *see* **Kawashima, K.** 20 (1990) 369– 375
Saito, T., K. Murakami and **H. Inose**, Local digital telephone system on two-way cable television 12 (1986) 11– 25
Sajeev, S., *see* **Nguyen, T.-L.** 30 (1998) 578– 582
Sakagami, H. and **Kamba, T.**, Learning personal preferences on online newspaper articles from user behaviors 29 (1996/98) 1447–1455
Sakagami, H., T. Kamba, A. Sugiura and **Y. Koseki**, Effective personalization of push-type systems – visualizing information freshness 30 (1998) 53– 63
Sakata, T., Tada, H. and **Ohtake, T.**, Metadata mediation: representation and protocol 29 (1996/98) 1137–1146
Salari, S., *see* **Goldberg, M.W.** 28 (1995/96) 1219–1231
Saleh, K., *see* **Khoumsi, A.** 29 (1996/98) 759– 780
Sales, B., A profile for wide area X.25 operating at 2 Mbps 21 (1991) 307– 314
Sales, B., TCP/IP-X.25/OSI interoperation: from the medium term to the long term 23 (1991/92) 171– 176
Sales, B., *see* **Mannie, E.** 25 (1992/93) 420– 425
Sales, B., *see* **Najmabadi Kia, R.** 25 (1992/93) 405– 410
Salvachúa, J., *see* **Mañas, J.A.** 25 (1992/93) 815– 839
Salvetti, O., *see* **Marini, D.** 29 (1996/98) 1655–1660
Samarawera, N., *see* **Pavett, S.** 30 (1998) 672– 675
Sameshima, Y. and **P.T. Kirstein**, Secure document interchange: a secure user agent 28 (1995/96) 513– 523
Samudra, P., *see* **Kalyanaraman, S.** 30 (1998) 2293–2308
Sanderson, T., Networks and the space scientist 19 (1990) 356– 361
Sandewall, E., Towards a world-wide data base 28 (1995/96) 1513–1522
Sandick, H., *see* **Doeringer, W.** 29 (1996/98) 137– 155
Sandick, H., *see* **Onvural, R.O.** 28 (1995/96) 307– 323
Sandkuhl, K., *see* **Nentwig, L.** 28 (1995/96) 481– 490
Sano, D., *see* **Nielsen, J.** 28 (1995/96) 179– 188
Santek, D., *see* **Hibbard, W.** 22 (1991) 103– 109
Santo, H., AMIGO: Advanced messaging in groups. Interim report 15 (1988) 55– 60
Santo, H., *see* **Jonas, K.** 28 (1995/96) 563– 573
Santo, H.P., Visualization and Graphics on the World Wide Web (Editorial) 29 (1996/98) 1555–1557
Santo, H.P., Graphics Research and **Education on the World Wide Web** 30 (1998) 1829–1831
Santos, A., *see* **Afonso, M.** 30 (1998) 2093–2103
Santoso, H., *see* **Towsley, D.** 24 (1992) 185– 195
Saracco, R. and **P.A.J. Tilanus**, CCITT SDL: overview of the language and its applications 13 (1987) 65– 74
Sarikaya, B., Conformance testing: architectures and test sequences 17 (1989) 111– 126
Sarikaya, B., *see* **Ates, A.F.** 29 (1996/98) 107– 131
Sarkar, D., *see* **Akyildiz, I.F.** 28 (1995/96) 855– 872
Sarma, A., Introduction to SDL-92 28 (1995/96) 1603–1615
Sato, H., *see* **Yokotani, T.** 25 (1992/93) 1107–1117
Sattler, C., *see* **Adler, H.-M.** 19 (1990) 181– 185
Sauer, K. and **W. Schödl**, Performance aspects of the DQDB protocol 20 (1990) 253– 260
Savino, P., *see* **Amato, G.** 30 (1998) 604– 606
Schäfer, J., *see* **Jonas, K.** 28 (1995/96) 563– 573
Schaffa, F., *see* **Patel, B.** 28 (1995/96) 1791–1807
Schalück, E., *see* **Nick, A.** 30 (1998) 1491–1500
Schechter, S., M. Krishnan and **M.D. Smith**, Using path profiles to predict HTTP requests 30 (1998) 457– 467
Schefström, D., *see* **Parnes, P.** 29 (1996/98) 1083–1090
Schehrer, R.G., On a cut-off priority queuing system with hysteresis and unlimited waiting room 20 (1990) 45– 56
Scheller, A., Document standards: availability and products 16 (1988/89) 138– 142
Schembra, G., *see* **La Corte, A.** 29 (1996/98) 1881–1900
Schepers, H.J.J.H., O.B.P. Rikkert de Koe, G.M.J. Havermans and **D.K. Hammer**, Naming, addressing, routing and relaying in the OSI environment 23 (1991/92) 241– 251
Schepers, H.J.J.H., O.B.P. Rikkert de Koe, G.M.J. Havermans and **D.K. Hammer**, LAN/WAN interworking in the OSI environment 23 (1991/92) 253– 266
Scherbakova, N.G., *see* **Belov, S.D.** 30 (1998) 1657–1662
Scheuermann, P., Shim, J. and **Vingralek, R.**, A case for delay-conscious caching of Web documents 29 (1996/98) 997–1005

Scheys, G., *see* **Courtois, P.-J.** 20 (1990) 27– 35
Schickler, M.A., M.S. Mazer and **C. Brooks**, Pan-Browser support for annotations and other meta-information on the World Wide Web 28 (1995/96) 1063–1074
Schilit, B.N., F. Douglis, D.M. Kristol, P. Krzyzanowski, J. Sienicki and **J.A. Trotter**, TeleWeb: Loosely connected access to the World Wide Web 28 (1995/96) 1431–1444
Schilit, B.N., *see* **Bickmore, T.W.** 29 (1996/98) 1075–1082
Schill, A., S. Kühn and **F. Breiter**, Internetworking over ATM: Experiences with IP/IPng and RSVP 28 (1995/96) 1915–1927
Schill, A., *see* **Breiter, F.** 30 (1998) 1627–1635
Schill, Š., Networking in Czechoslovakia: efforts and results 19 (1990) 186– 188
Schjelderup, O., *see* **Ferreira, J.N.** 28 (1995/96) 1947–1952
Schlenzig, J., *see* **Katkere, A.** 28 (1995/96) 1559–1572
Schlenzig, J., *see* **Katkere, A.** 29 (1996/98) 887– 895
Schmaranz, K., *see* **Maurer, H.** 26 (1994/95) S63– S69
Schmid, R., *see* **Almesberger, W.** 30 (1998) 2327–2336
Schmid, U. and **A. Pusterhofer**, SSCMP: the sequenced synchronized clock message protocol 27 (1994/95) 1615–1632
Schneider, J.M., L.F. Mackert, G. Zörntlein, R.J. Velthuys and **U. Bär**, An integrated environment for developing communication protocols 25 (1992/93) 43– 61
Schödl, W., *see* **Sauer, K.** 20 (1990) 253– 260
Scholl, M., *see* **Michard, A.** 30 (1998) 1185–1200
Schönhage, B., *see* **Eliëns, A.** 29 (1996/98) 897– 903
Schönwälder, J., Network management by delegation – from research prototypes towards standards 29 (1996/98) 1843–1852
Schranz, M.W., *see* **Barta, R.A.** 30 (1998) 281– 290
Schuba, M., *see* **Hermanns, O.** 28 (1995/96) 429– 439
Schulz, K.-J. and **U. Christ**, Broadband networking requirements for exploitation of Columbus space laboratory data 21 (1991) 275– 283
Schulze, W., *see* **Böhm, M.** 28 (1995/96) 1961–1969
Schunter, M., M. Waidner and **D. Whinnett**, A status report on the *SEMPER* framework for secure electronic commerce 30 (1998) 1501–1510
Schuringa, T.M., Opening speech (in special issue ''Conference on Communication and Data Communication'') 14 (1987) 121– 122
Schwartz, M., *see* **Ong, L.Y.** 28 (1995/96) 269– 282
Schwartz, M.F., *see* **Bowman, C.M.** 119
Schwarz, E., *see* **Brusilovsky, P.** 30 (1998) 291– 300
Schwarz-Schilling, Chr., Guidelines for the development of public networks and services in the Federal Republic of Germany 12 (1986) 209– 215
Scollo, G., *see* **Brinksma, E.** 22 (1991) 1– 6
Scollo, G., *see* **Turner, K.J.** 29 (1996/98) 393– 395
Scott, C.T., *see* **Chang, J.W.** 28 (1995/96) 1501–1511
Scullin, W.H., *see* **Lamm, S.E.** 28 (1995/96) 1457–1468
Seaman, G., *see* **Mascha, M.** 27 (1994/95) 267– 272
Seban, R.R., *see* **Karadimce, A.P.** 21 (1991) 129– 142
Seery, J.B., *see* **Mitra, D.** 25 (1992/93) 663– 679
Segal, B., *see* **Altaber, J.** 23 (1991/92) 139– 142
Segall, A. and **I.S. Gopal**, Distributed name assignment in computer networks 17 (1989) 127– 139
Segall, A., *see* **Cohen, R.** 24 (1992) 131– 144
Segall, A., *see* **Gopal, I.** 18 (1989/90) 255– 262
Segall, A., *see* **Jaffe, J.M.** 12 (1986) 147– 158
Segall, A., *see* **Li, C.-S.** 30 (1998) 2359
Seiler, A.M., *see* **Seiler, R.J.** 30 (1998) 739– 741
Seiler, R.J., A.M. Seiler, J.M. Ireland, A.M. Guy and **K.N. Woodward**, Enhancing Internet access for people with disabilities 30 (1998) 739– 741
Seligmann, D.D., Laporte, C. and **Bugaj, S.V.**, The message is the medium 29 (1996/98) 1519–1530
Selley, G. and **Gaved, M.**, Development of the Design Information Centre: Multimedia Assets for Industrial Design (MAID) 30 (1998) 1209–1222
Semaan, G., Isochronism and asynchronism: methods and performance of HSLANs 21 (1991) 299– 306
Sember, P., *see* **Warfield, B.** 20 (1990) 163– 169
Sember, P.P., T.R. Mueller, N. Baker, M.C. Flower, B. Raskutti and **W. Wen**, Web cache focusing devices 30 (1998) 682– 684
Sengupta, B., *see* **Chowdhury, S.** 29 (1996/98) 157– 164
Sengupta, B., *see* **Ramamurthy, G.** 28 (1995/96) 411– 423
Sengupta, B., *see* **Ramamurthy, G.** 28 (1995/96) 811– 834
Senior, J.M., W.M. Walker and **A. Ryley**, Topology and MAC layer access protocol investigation for industrial optical fibre LANs 13 (1987) 275– 289
Senior, J.M., *see* **Cusworth, S.D.** 18 (1989/90) 323– 333
Serbedzija, N.B., The Web supercomputing environment 30 (1998) 742– 744
Sereno, M., *see* **Bondavalli, A.** 24 (1992) 15– 32
Seshaiah, P., *see* **Srivatsa, S.K.** 27 (1994/95) 567– 569
Severinson Eklundh, K., Explicit and implicit feedback in computer–mediated communication 14 (1987) 147– 153
Sezaki, K., Y. Tanaka and **M. Akiyama**, *N*:1 connection switching networks suited for time division switching 20 (1990) 383– 389
Sha, F., *see* **Atmaca, T.** 24 (1992) 421– 434
Shabalnikov, I.V., *see* **Belov, S.D.** 30 (1998) 1657–1662
Shah, K., *see* **Shklar, L.** 27 (1994/95) 939– 951
Shakes, J., Langheinrich, M. and **Etzioni, O.**, Dynamic reference sifting: a case study in the homepage domain 29 (1996/98) 1193–1204

Shankar, A.U., *see* **Matta, I.** 29 (1996/98) 1999–2019
Shannon, D.C., *see* **Tsuchiya, M.** 11 (1986) 15– 27
Sharma, N.K., Effect of windowing policies for input buffered ATM switch 30 (1998) 1083–1090
Sharma, V., *see* **Varvarigos, E.A.** 30 (1998) 1135–1156
Sharrock, S.M., S. Ghanta, H.C. Du and **K.J. Maly,** A CSMA/CD-based, integrated voice/data protocol with dynamic channel allocation 18 (1989/90) 1– 18
Shatz, S.M., P.S. Kajka and **A.S. Chauhan,** Formal modeling and automated analysis of the LAPD protocol 18 (1989/90) 293– 314
Shave, C., Developing on-line courses - teacher support needs 30 (1998) 745– 746
Shearer, D., *see* **Steinmann, U.** 30 (1998) 1201–1207
Sheldon, M.A., A. Duda, R. Weiss and **D.K. Gifford,** Discover: a resource discovery system based on content routing 27 (1994/95) 953– 972
Shepherd, M., *see* **Watters, C.** 30 (1998) 704– 706
Sherman, M., Guest Editorial 21 (1991) 145– 147
Sherman, M., *see* **Rosenberg, J.** 21 (1991) 211– 220
Sheu, S.-T., *see* **Huang, N.-F.** 29 (1996/98) 221– 235
Shillner, R.A., *see* **Brown, M.H.** 27 (1994/95) 1097–1104
Shim, J., *see* **Li, W.-S.** 30 (1998) 149– 159
Shim, J., *see* **Scheuermann, P.** 29 (1996/98) 997–1005
Shimada, T., Iwami, N., Tomokane, T., Hayashi, M. and **Kuwahara, Y.,** Interactive scaling control mechanism for World-Wide Web systems 29 (1996/98) 1467–1477
Shimamoto, S., *see* **Onozato, Y.** 12 (1986) 329– 337
Shin, B.C., *see* **Kim, Y.H.** 25 (1992/93) 295– 303
Shin, J.-D., *see* **Kang, C.-S.** 27 (1994/95) 1387–1398
Shin, M.-K., J.-Y. Lee, J.-S. Bae and **J.-H. Hahm,** The RTMW application: bringing multicast audio/video to the Web 30 (1998) 685– 687
Shinohara, M., Generalization of Pratt's formula for dimensioning circuit-switched networks 20 (1990) 115– 126
Shinohara, M., *see* **Ren, W.** 30 (1998) 1793–1810
Shiozawa, Y., T. Takine, Y. Takahashi and **T. Hasegawa,** Analysis of a polling system with correlated input 20 (1990) 297– 308
Shiratori, N., K. Takahashi and **S. Noguchi,** A software design method and its application to protocol and communication software development 15 (1988) 245– 267
Shiratori, N., *see* **Varakulsiripunth, R.** 11 (1986) 43– 58
Shklar, L., K. Shah and **C. Basu,** Putting legacy data on the Web: a repository definition language 27 (1994/95) 939– 951
Shrikumar, H. and **R. Post,** Thinternet: life at the end of a tether 27 (1994/95) 375– 385
Shrivastava, S.K., *see* **Little, M.C.** 29 (1996/98) 1281–1290
Shtalhaim, M., *see* **Hersovici, M.** 30 (1998) 317– 326
Shtalhaim, M., *see* **Maarek, Y.S.** 29 (1996/98) 1269–1279
Shu, J.C. and **M.T. Liu,** An approach to indirect protocol conversion 21 (1991) 93– 108
Shuey, R.L., *see* **Frieder, O.** 25 (1992/93) 259– 273
Shull, F., *see* **Pointek, J.** 29 (1996/98) 831– 840
Shur, D.H., *see* **Tobagi, F.A.** 12 (1986) 39– 60
Sidhu, D.P., Authentication protocols for computer networks: I (see also: Erratum, 11 (1986) 408) 11 (1986) 297– 310
Sidhu, D.P. and **T.P. Blumer,** Semi-automatic implementation of OSI protocols 18 (1989/90) 221– 238
Siegl, M.R. and **G. Trausmuth,** Hierarchical network management: a concept and its prototype in SNMPv2 28 (1995/96) 441– 452
Sienicki, J., *see* **Schilit, B.N.** 28 (1995/96) 1431–1444
Sifer, M.J., *see* **Liechti, O.** 30 (1998) 11– 21
Sijelmassi, R. and **R.J. Linn,** Guidelines for using Estelle to specify OSI services and protocols 23 (1991/92) 343– 362
Sijelmassi, R. and **B. Strausser,** The PET and DINGO tools for deriving distributed implementations from Estelle 25 (1992/93) 841– 851
Silvester, J.A., *see* **Economides, A.A.** 28 (1995/96) 401– 409
Silvester, J.A., *see* **Fonseca, N.L.S.** 29 (1996/98) 2153–2164
Silvester, J.A., *see* **Raghavendra, C.S.** 11 (1986) 29– 42
Simha, R. and **B. Narahari,** Single path routing with delay considerations 24 (1992) 405– 419
Simha, R. and **Y. Ofek,** A starvation-free access protocol for a full-duplex buffer insertion ring local area network 21 (1991) 109– 120
Simha, R., *see* **Kim, J.B.** 28 (1995/96) 653– 673
Simmons, J.M., Proof of correctness of ATM retransmission scheme 29 (1996/98) 181
Simonen, S., *see* **Altaber, J.** 23 (1991/92) 139– 142
Simoni, N. and **S. Znaty,** Interconnection of high-speed data networks: contribution of dynamic control and quality of service 25 (1992/93) 570– 576
Simonson, J., D. Berleant, X. Zhang, M. Xie and **H. Vo,** Version augmented URIs for reference permanencevia an Apache module design 30 (1998) 337– 345
Sincoskie, W.D., System architecture for a large scale video on demand service 22 (1991) 155– 162
Sincoskie, W.D., *see* **Clark, D.D.** 25 (1992/93) 599– 621
Singh, R.P., *see* **Popescu, A.** 25 (1992/93) 1089–1105
Sinha, D., *see* **Jin, S.** 22 (1991) 249– 264

Sinnott, R.O. and **K.J. Turner,** Applying the architectural semantics of ODP to develop a trader specification 29 (1996/98) 457
Siu, K.-Y., *see* **Narváez, P.** 30 (1998) 1775–1791
Siu, K.-Y., *see* **Ren, W.** 30 (1998) 1793–1810
Skellern, D., *see* **Hogan, M.** 29 (1996/98) 595– 610
Skoog, R.A. and **A.R. Modarressi,** Alternatives and issues for network signaling transport in a broadband environment 20 (1990) 361– 368
Skov, M., *see* **Birch, J.** 24 (1992) 109– 118
Slater, A.F., Controlled by the Web 27 (1994/95) 289– 295
Slater, A.F., Extending W3 clients 28 (1995/96) 61– 68
Slater, A.F., *see* **Nicol, D.** 27 (1994/95) 879– 885
Sluman, C., A tutorial on OSI management 17 (1989) 270– 278
Smart, G., *see* **Ter Stal, W.G.** 30 (1998) 1237–1248
Smeaton, C., *see* **Nicol, D.** 27 (1994/95) 879– 885
Smetaniuk, B., Distributed operation of the X.500 directory 21 (1991) 17– 40
Smith, A., J. Adams and **G. Tagg,** Available Bit Rate—a new service for ATM 28 (1995/96) 635– 640
Smith, B.R., *see* **Zeng, H.X.** 17 (1989) 77– 88
Smith, D.E., *see* **Forys, L.J.** 20 (1990) 171– 177
Smith, I.L., Joint Academic Network (JANET) 16 (1988/89) 101– 105
Smith, I.L., *see* **Cooper, R.** 21 (1991) 347– 351
Smith, J.M. and **D.J. Farber,** Traffic characteristics of a distributed memory system 22 (1991) 143– 154
Smith, J.M., *see* **Clark, D.D.** 25 (1992/93) 599– 621
Smith, M.D., *see* **Schechter, S.** 30 (1998) 457– 467
Smith, N.G., The UK national Web cache – The state of the art 28 (1995/96) 1407–1414
Snowdon, D., *see* **Benford, S.** 29 (1996/98) 1751–1761
Sobrinho, J.L. and **J.M. Brázio,** Proposal and performance analysis of a multiple-access protocol for high-speed wireless LANs 28 (1995/96) 283– 305
Soh, B.C. and **T.S.D.P. County,** Quantitative risk assessment of computer virus attacks on computer networks 27 (1994/95) 1447–1456
Sohraby, K., *see* **Li, C.-S.** 30 (1998) 2359
Sojka, E., Two simple and efficient algorithms for Jordan sorting and polygon cutting and clipping 29 (1996/98) 1661–1673
Sokolov, N., I. Ekhriel, R. Rerle and **S. Brusilovsky,** On some teletraffic models simplification 25 (1992/93) 1165–1173
Solbakk, S.A., *see* **Kongsli, T.A.** 21 (1991) 293– 297
Solomon, C., J.-F. L'Haire and **J.-F. Paccini,** LAN management by cooperation: Hewlett-Packard and the University of Geneva 23 (1991/92) 79– 85
Soloway, S.R., *see* **Humblet, P.A** 16 (1988/89) 179– 186
Soreide, N.N., L.C. McCarty and **D.C. McClurg,** Mosaic access to real-time data from the TOGA-TAO array of moored buoys 28 (1995/96) 189– 197
Sorensen, J., *see* **Rasmussen, C.** 20 (1990) 197– 202
Sousa, P. and **V. Freitas,** A framework for the development of tolerant real-time applications 30 (1998) 1531–1541
Spaniol, O., *see* **Omidyar, C.G.** 29 (1996/98) 1997–1998
Sparano, D., *see* **Ciulli, N.** 30 (1998) 1447–1455
SPECS Consortium, *see* **Bruijning, J.** 13 (1987) 75– 89
Sperberg-McQueen, C.M. and **R.F. Goldstein,** HTML to the max: a manifesto for adding SGML intelligence to the World-Wide Web 28 (1995/96) 3– 11
Spertus, E., ParaSite: mining structural information on the Web 29 (1996/98) 1205–1215
Speth, R., EUTECO 88: European Teleinformatics Conference 1988 (COST-11 ter news) 16 (1988/89) 257– 259
Speth, R., The Y-NET initiative: an OSI kernel for European R&D 17 (1989) 358– 360
Spiceley, A., ODA profiles: application and development 21 (1991) 165– 173
Spierenburg, P., *see* **Rau-Chaplin, A.** 29 (1996/98) 1611–1623
Sørensen, S.-A., *see* **Leung, C.H.C.** 23 (1991/92) 229– 240
Srinidhi, S.M., W.H. Thesling and **V.K. Konangi,** An adaptive scheme for admission control on ATM networks 29 (1996/98) 569– 582
Srinivas, C.J., *see* **Maly, K.** 30 (1998) 660– 662
Srinivasan, B. and **A.L. Ananda,** A simple file server for a terminal support network environment 11 (1986) 383– 389
Srivastava, D., *see* **Lee, D.** 30 (1998) 656– 657
Srivastava, M., P. Mishra, P. Agrawal and **G. Nguyen,** Ethersim: a simulator for application-level performance modeling of wireless and mobile ATM networks 29 (1996/98) 2067–2090
Srivatsa, S.K. and **P. Seshaiah,** On the topological design of a Computer Network 27 (1994/95) 567– 569
Stachel, H., Coordinates – a survey on higher geometry 29 (1996/98) 1645–1654
Staelens, D., *see* **Janssens, G.K** 14 (1987) 365– 372
Stairmand, M., *see* **DeRoure, D.** 30 (1998) 624– 625
Stals, B., Users and networks—survival of the fittest? 25 (1992/93) 335– 338
Stanfield, A., Cyber courts: using the Internet to assist court processes 30 (1998) 559– 566
Stapleton, M., *see* **Michard, A.** 30 (1998) 1185–1200
Starzak, S., *see* **Nakonieczny, M.** 30 (1998) 1669–1676

Stassinopoulos, G.I. and **I.S. Venieris,** ATM adaptation layer protocols for signalling 23 (1991/92) 287– 304
Stassinopoulos, G.I., *see* **Varvitsiotis, A.P.** 25 (1992/93) 1243–1263
Stata, R., *see* **Abadi, M.** 30 (1998) 531– 539
Stavrakakis, I., *see* **Dağ, T.** 29 (1996/98) 2103–2117
Stavrakakis, I., *see* **Landry, R.** 29 (1996/98) 293– 313
Steenhaut, K., K. Degieter, W. Brissinck and **E. Dirkx,** Scheduling and admission control policies: A case study for ATM 29 (1996/98) 539– 554
Stefani, J.B., *see* **Blair, G.S.** 29 (1996/98) 473– 500
Stefani, J.B., *see* **Coulson, G.** 27 (1994/95) 1231–1246
Stefani, J.-B., *see* **Najm, E.** 27 (1994/95) 1305–1329
Steinbakk, L., *see* **Kongsli, T.A.** 21 (1991) 293– 297
Steinmann, U. and **Shearer, D.,** Reusing multi-media components: a catalogue implementation 30 (1998) 1201–1207
Stephens, N.M., *see* **Campbell, J.K.** 27 (1994/95) 887– 896
Stephenson, G.A., Electronic publishing resources on the Web 30 (1998) 1263–1271
Stepien, B., *see* **Faci, M.** 21 (1991) 53– 67
Stepien, B., *see* **Faci, M.** 29 (1996/98) 501– 528
Stepien, T.M., *see* **Cowan, D.D.** 15 (1988) 313– 327
Sterba, M., ISDN in European research networking 25 (1992/93) 400– 404
Stesin, L., *see* **Lu, Q.** 30 (1998) 721– 722
Stevens, R.J., R.T. Greenwood, G. Alvisi and **M. Deschamps,** Design of a large distributed information system 14 (1987) 123– 135
Steves, D.H., C. Edmondson-Yurkanan and **M. Gouda,** Properties of secure transaction protocols 29 (1996/98) 1809–1821
Stewart, I.R., *see* **Beshai, M.E.** 20 (1990) 333– 341
Stewing, F.-J., *see* **Faux, I.** 30 (1998) 1249–1262
Steyaert, B., H. Bruneel, G.H. Petit and **E. Desmet,** End-to-end delays in multistage ATM switching networks: approximate analytic derivation of tail probabilities 25 (1992/93) 1227–1241
Stheneur, N., *see* **Altaber, J.** 23 (1991/92) 139– 142
Stikvoort, D., SURFnet-3: towards a medium speed infrastructure in The Netherlands 21 (1991) 333– 334
Stikvoort, D., *see* **Ferreira, J.N.** 28 (1995/96) 1947–1952
Stock, T., *see* **Tran-Gia, P.** 20 (1990) 231– 240
Stockman, B., NORDUnet experiences in network management 23 (1991/92) 73– 78
Stockwell, D.R.B., *see* **Boston, A.N.** 28 (1995/96) 231– 238
Stone, P., Developing networked services for libraries: the U.K. experience 19 (1990) 343– 349
Stotts, D., *see* **Capps, M.** 28 (1995/96) 1105–1112
Strauss, M., *see* **Chu, Y.-H.** 29 (1996/98) 953– 964
Strausser, B., *see* **Sijelmassi, R.** 25 (1992/93) 841– 851
Strigini, L., *see* **Bondavalli, A.** 18 (1989/90) 97– 113
Strigini, L., *see* **Bondavalli, A.** 24 (1992) 15– 32
Stroiński, M., *see* **Nakonieczny, M.** 30 (1998) 1669–1676
Strom, J. and **G. Neisser,** Re-engineering the desktop: taking the knowledge-base to the user to support education and city communities 30 (1998) 1649–1656
Strom, J., *see* **Mills, P.** 28 (1995/96) 589– 597
Sturm, P., *see* **Baentsch, M.** 27 (1994/95) 789– 800
Sturm, P., *see* **Baentsch, M.** 28 (1995/96) 921– 930
Su, D., *see* **Golmie, N.** 30 (1998) 1749–1761
Suda, T., J.J. Bae and **D.C. Baxter,** The robustnes and performance of tree collision resolution algorithms in an unshared feedback error environment 18 (1989/90) 275– 292
Suda, T. and **S. Morris,** Tree LANs with collision avoidance: station and switch protocols 17 (1989) 101– 110
Suda, T., *see* **Kim, J.B.** 27 (1994/95) 5– 27
Suda, T., *see* **Kim, J.B.** 28 (1995/96) 653– 673
Suda, T., *see* **Morris, S.** 17 (1989) 89– 100
Sugiura, A. and **Y. Koseki,** Internet Scrapbook: automating Web browsing tasks by programming-by-demonstration 30 (1998) 688– 690
Sugiura, A., *see* **Sakagami, H.** 30 (1998) 53– 63
Sugla, B., *see* **Krishnan, P.** 30 (1998) 195– 203
Sun, Q. and **Langendörfer, H.,** Routing for low call blocking in high-speed general topology networks 30 (1998) 795
Sundaram, R., *see* **Hartman, J.H.** 29 (1996/98) 1129–1135
Sundareshan, M.K., *see* **Meempat, G.** 29 (1996/98) 631– 652
Sung, D.K., *see* **Choi, B.D.** 29 (1996/98) 781– 795
Suresh, R., *see* **Meyer, T.** 28 (1995/96) 221– 228
Susaki, S. and **T. Muramoto,** Information sharing system on the WWW with interactive communication 30 (1998) 747– 749
Susanna, L., *see* **Lombardo, A.** 25 (1992/93) 1119–1126
Sutcliffe, D., *see* **Michard, A.** 30 (1998) 1185–1200
Sutherland, E. and **Y.V.H. Morieux,** Managing telecommunications 14 (1987) 259– 266
Sutter, C., *see* **Goldberg, K.** 28 (1995/96) 209– 219
Sutton, S.A., Gateway to Educational Materials (GEM): metadata for networked information discovery and retrieval 30 (1998) 691– 693
Suzuki, H., *see* **Ren, W.** 30 (1998) 1793–1810
Svobodova, L., Measured performance of transport service in LANs 18 (1989/90) 31– 45
Sweeney, K., *see* **Altaber, J.** 23 (1991/92) 139– 142
Swenson, M.C., *see* **Crandall, M.** 28 (1995/96) 1175–1186
Swoboda, P., *see* **Goldberg, M.W.** 28 (1995/96) 1219–1231
Syed, H., *see* **Maly, K.J.** 27 (1994/95) 849– 860
Sylvester, P., *see* **Pinse, D.** 25 (1992/93) 526– 530
Sylwestrzak, W., *see* **Kurcewicz, M.** 30 (1998) 2203–2209

Sylwestrzak, W., *see* **Kurcewicz, M.** 30 (1998) 2261–2267
Synnes, K., *see* **Parnes, P.** 29 (1996/98) 1083–1090
Szabo, C., An Ethernet compatible protocol to support real time traffic and multimedia applications 29 (1996/98) 335– 342
Szabó, C., P. Bakonyi and **L. Csaba,** Towards a second phase of the Hungarian R & D network 19 (1990) 367– 372
Szigeti, S., *see* **Mohácsi, J.** 30 (1998) 1617–1625
Szmurlo, M. and **Madelaine, J.**, A network of asynchronous microservers as a framework for server development 29 (1996/98) 1041–1051

Tada, H., *see* **Sakata, T.** 29 (1996/98) 1137–1146
Tagg, G., *see* **Smith, A.** 28 (1995/96) 635– 640
Tai, K.-C. and **Young, Y.-C.**, Synchronizable test sequences of finite state machines 30 (1998) 1111–1134
Takada, T., Multilingual information exchange through the World-Wide Web 27 (1994/95) 235– 241
Takagi, H., Application of polling models to computer networks 22 (1991) 193– 211
Takagi, H. and **M. Murata,** Output processes of slotted persistent CSMA and CSMA/CD systems 13 (1987) 333– 346
Takagi, H., *see* **Hong, S.J.** 29 (1996/98) 701– 715
Takagi, H., *see* **Murata, M.** 24 (1992) 45– 64
Takahashi, K. and **Liang, E.**, Analysis and design of Web-based information systems 29 (1996/98) 1167–1180
Takahashi, K., *see* **Shiratori, N.** 15 (1988) 245– 267
Takahashi, T., Report on the INS experiment 11 (1986) 269– 276
Takahashi, Y., *see* **Shiozawa, Y.** 20 (1990) 297– 308
Takalo, J., *see* **Kaarela, K.** 27 (1994/95) 751– 764
Takine, T., *see* **Shiozawa, Y.** 20 (1990) 297– 308
Takiyasu, Y. and **T.P. Tanaka,** Consideration of a slot access method for backbone local area networks 17 (1989) 193– 199
Tamine, J., Successful implementation of an office system 14 (1987) 279– 282
Tanaka, T.P., *see* **Takiyasu, Y.** 17 (1989) 193– 199
Tanaka, Y., *see* **Sezaki, K.** 20 (1990) 383– 389
Tang, F., *see* **Ng, V.** 30 (1998) 1991–2001
Tarhanjan, A., *see* **Horsch, A.** 28 (1995/96) 1971–1977
Tarraf, A., *see* **Habib, I.** 29 (1996/98) 325– 334
Tasker, R., *see* **Kummer, P.** 12 (1986) 81– 87
Tasker, R., *see* **Linge, N.** 13 (1987) 323– 332
Tauber, M.J., *see* **Van der Veer, G.C.** 15 (1988) 73– 80
Taylor, R. and **R. Addie,** An algorithm for calculating the availability and mean time to restore for communication through a network 20 (1990) 109– 114
Tcha, D.-W., C.-Y. Jin and **E. Lutz,** Link-by-link bandwidth allocation in an integrated voice/data network using the fuzzy set approach 16 (1988/89) 217– 227
Tennenhouse, D., B. Lampson, S.E. Gillett and **J.S. Klein**, Virtual infrastructure: Putting information infrastructure on the technology curve 28 (1995/96) 1769–1790
Tennenhouse, D.L., *see* **Clark, D.D.** 25 (1992/93) 599– 621
Terpstra, M., *see* **Karrenberg, D.** 25 (1993/94) S58– S62
Ter Stal, W.G., Beijert, J.-H., De Bruin, G., Van Gent, J., De Jong, F.M.G., Kraaij, W., Netter, K. and **Smart, G.**, Twenty-One: cross-language disclosure and retrieval of multimedia documents on sustainable development 30 (1998) 1237–1248
Tesoriero, R., *see* **Pointek, J.** 29 (1996/98) 831– 840
Tewari, R., *see* **Weinstock, J.** 29 (1996/98) 1869–1879
Thachenkary, C.S., Integrated Services Digital Networks (ISDN): six case study assessments of a commercial implementation 25 (1992/93) 921– 932
Thachenkary, C.S., *see* **Chatterjee, S.** 30 (1998) 1295–1310
Thalmann, D., C. Babski, T. Capin, N. Magnenat Thalmann and **I.S. Pandzic,** Sharing VLNET worlds on the Web 29 (1996/98) 1601–1610
Thau, R., Design considerations for the Apache Server API 28 (1995/96) 1113
Theis, G., *see* **Geurts, P.** 25 (1992/93) 583– 591
Theologou, M.E., *see* **Anagnostou, M.E.** 24 (1992) 335– 344
Thery, S., *see* **Bechmann, D.** 29 (1996/98) 1715–1725
Thesling, W.H., *see* **Srinidhi, S.M.** 29 (1996/98) 569– 582
Thistlewaite, P. and **S. Ball**, Active FORMs 28 (1995/96) 1355–1364
Thomas, J., *see* **Karshmer, A.I.** 15 (1988) 135– 151
T'Hooft, G., Formal description techniques: communication tools for data communication specialists. Formal specification and implementation of a file transfer protocol 14 (1987) 311– 321
Tilanus, P.A.J., *see* **Saracco, R.** 13 (1987) 65– 74
Tindemans, P., COSINE: ready to move into implementation phase 17 (1989) 344– 345
Tipper, D., *see* **Yeh, W.P.** 27 (1994/95) 1349–1366
Tirler, R., The EBIT Project 19 (1990) 299– 303
Tirler, R., *see* **Malara, P.** 25 (1993/94) S17– S23
Tobagi, F.A. and **D.H. Shur,** Performance evaluation of channel access schemes in multihop packet radio networks with regular structure by simulation 12 (1986) 39– 60
Tobagi, F.A., *see* **Birk, Y.** 15 (1988) 341– 357
Tobagi, F.A., *see* **Wang, W.** 25 (1992/93) 631– 644
Todd, T.D., An access control protocol using instantaneous bandwidth reconfiguration 12 (1986) 99– 106

Todd, T.D. and **L. Li,** Branch-switching in unidirectional channel systems using the IEEE 802.4 token-passing bus access method 15 (1988) 177– 188
Todd, T.D., *see* **Ahmadvand, N.** 29 (1996/98) 1901–1917
Togawa, T., M. Nishiwaki and **K.-I. Yoshida,** Network testing system for digital data networks 12 (1986) 175– 182
Tohmé, S., *see* **Coelho, R.** 29 (1996/98) 2053–2066
Tokunaga, H., *see* **Niwa, A.** 17 (1989) 37– 45
Tolksdorf, R., *see* **Ciancarini, P.** 28 (1995/96) 941– 952
Tomokane, T., *see* **Shimada, T.** 29 (1996/98) 1467–1477
Tong, F.H.F. and **Zhang, D.,** A new progressive colour image transmission scheme for the World Wide Web 30 (1998) 2059–2064
Topsøe, F., EUROMATH - the integrated database and communications system for European mathematicians 13 (1987) 219
Tosi, A., *see* **West, C.H.** 27 (1994/95) 1163–1174
Touch, J. and **A.S. Hughes,** LSAM proxy cache: a multicast distributed virtual cache 30 (1998) 2245–2252
Touramanis, C., *see* **Altaber, J.** 23 (1991/92) 139– 142
Touvet, J.-C. and **P.-A. Pays,** A multimedia White Page Service using X.500/WWW integration 26 (1994/95) S39– S48
Towheed, S.S., *see* **Mathews, G.J.** 27 (1994/95) 801– 808
Towheed, S.S., *see* **Mathews, G.J.** 28 (1995/96) 1857–1864
Towsley, D., S. Fdida and **H. Santoso,** Congestion avoidance in high-speed interconnection systems 24 (1992) 185– 195
Tranchier, D.P., *see* **Boyer, P.E.** 24 (1992) 321– 334
Tran-Gia, P. and **T. Stock,** Approximate performance analysis of the DQDB access protocol 20 (1990) 231– 240
Trannoy, A., *see* **Malara, P.** 25 (1993/94) S17– S23
Trausmuth, G., *see* **Siegl, M.R.** 28 (1995/96) 441– 452
Trček, D., *see* **Jerman-Blažič, B.** 28 (1995/96) 709– 717
Tretmans, J., Conformance testing with labelled transition systems: Implementation relations and test generation 29 (1996/98) 49–79
Trevor, J., R. Bentley and **G. Wildgruber,** Exorcising daemons: a modular and lightweight approach to deploying applications on the Web 28 (1995/96) 1053–1062
Tripathi, S.K., *see* **Ko, K.-T.** 25 (1992/93) 681– 699
Tripathi, S.K., *see* **Yang, Q.** 23 (1991/92) 267– 285
Tripoli, G., *see* **Hibbard, W.** 22 (1991) 103– 109
Tropper, C., Priorities and performance in packet-switching networks 12 (1986) 89– 98
Tropper, C., *see* **Evequoz, C.** 15 (1988) 1– 25
Tropper, C., *see* **Evéquoz, C.** 24 (1992) 387– 404
Tropper, C., *see* **Zissopoulos, A.** 16 (1988/89) 383– 393
Trotter, J.A., *see* **Schilit, B.N.** 28 (1995/96) 1431–1444
Truijens, J. and **J. Hutton,** Editorial to RARE 1987 special issue 13 (1987) 135–139
Truijens, J., *see* **Olthoff, R.** 16 (1988/89) 1– 3
Truijens, J., *see* **Wester, E.M.** 17 (1989) 233– 235
Trumpy, S., *see* **Abba, L.** 19 (1990) 350– 355
Trumpy S., *see* **Biorci, G.** 19 (1990) 189– 190
Tsai, I.-F. and **R.-H. Jan,** Internetting connectionless data networks with a wide area public ATM network 29 (1996/98) 797– 810
Tsang, S. and **Magill, E.H.,** The network operator's perspective: detecting and resolving feature interaction problems 30 (1998) 1421–1441
Tsuchiya, M. and **D.C. Shannon,** Simulation of distributed processing networks 11 (1986) 15– 27
Tsudik, G., *see* **Estrin, D.** 22 (1991) 363– 382
Tsuji, H., *see* **Nishikawa, N.** 30 (1998) 205– 214
Tucker, J., Naming and addressing issues - OSI network addresses 13 (1987) 149– 153
Tuok, R. and **Logrippo, L.,** Formal specification and use case generation for a mobile telephony system 30 (1998) 1045–1063
Turchanyi, G., Networking in Hungary 25 (1992/93) 444– 447
Türkheimer, F., Privacy and the Internet: The next step 27 (1994/95) 395– 402
Turman, B. and **R. Rubin,** Bell operating company packet interfaces between networks and subnets 16 (1988/89) 187– 196
Turner, K.J., Specification architecture illustrated in a commonucations context 29 (1996/98) 397– 411
Turner, K.J., Relating architecture and specification 29 (1996/98) 437– 456
Turner, K.J., An architectural description of intelligent network features and their interactions 30 (1998) 1389–1419
Turner, K.J. and **G. Scollo,** Specification architecture (Editorial) 29 (1996/98) 393– 395
Turner, K.J., *see* **Sinnott, R.O.** 29 (1996/98) 457– 471
Tusch, J., Performance measurement in token ring networks 25 (1992/93) 159– 168

Uhlig, R.P., IFIP and computer communication 12 (1986) 225– 229
Ulema, M., *see* **Ammar, M.H.** 27 (1994/95) 1– 3
Ullmann, K., President's review of the year 17 (1989) 239– 240
Ullmann, K., Organisational structures for the provision of international data communication services in the research community 23 (1991/92) 29– 32
Ullmann, K., Data networks for the European research and education sector—analysis and perspectives 25 (1992/93) 329– 334

Ullmann, K., RARE report 19 (1990) 170– 172
Ümit Uyar, M., Dual-state augmentation for minimizing conformance test costs 30 (1998) 1277–1294
Un, C.K., *see* **Lee, G.Y.** 19 (1990) 25– 41
Un, C.K., *see* **Nam, S.H.** 25 (1992/93) 169– 182
Un, C.K., *see* **Yoon, C.H.** 21 (1991) 381– 397
Un, C.K., *see* **Youn, Y.S.** 21 (1991) 41– 51
Un, C.K., *see* **Kim, Y.H.** 25 (1992/93) 295– 303
Underwood, G.M., P.P. Maglio and **R. Barrett**, User-centered push for timely information delivery 30 (1998) 33– 41
Underwood, R., *see* **England, P.** 28 (1995/96) 1547–1558
Unger, B., *see* **Hutchinson, N.** 11 (1986) 1– 14
Ur, S., *see* **Hersovici, M.** 30 (1998) 317– 326
Ur, S., *see* **Maarek, Y.S.** 29 (1996/98) 1269–1279
Ural, H. and **R.L. Probert,** Step-wise validation of communication protocols and services 11 (1986) 183– 202
Ural, H., *see* **Logrippo, L.** 24 (1992) 199– 201
Ural, H., *see* **Probert, R.L.** 18 (1989/90) 19– 29
Ural, H., *see* **van der Schoot, H.** 27 (1994/95) 1111–1136
Uyar, M.Ü., *see* **Bosik, B.S.** 22 (1991) 7– 33

Vajk, I., *see* **Berzsenyi, M.** 30 (1998) 1467–1473
Valenduc, G., *see* **Moens, L.** 14 (1987) 245– 249
Valkenburg, P., D. Beckett, M. Hamilton and **S. Wilkinson**, Standards in the CHIC-Pilot distributed indexing architecture 30 (1998) 1571–1578
Vaman, D.R., *see* **Jin, S.** 22 (1991) 249– 264
Vaman, D.R., *see* **Noh, T.H.** 29 (1996/98) 1857–1867
Vamvakos, S., *see* **Mitrou, N.** 27 (1994/95) 1175–1192
Van Arem, B. and **E.A. Van Doorn,** Analysis of a queuing model for slotted ring networks 20 (1990) 309– 314
Van Binst, P. and **L. Wilkin,** Guest editorial (to special issue ''Conference on Communication and Data Communication'') 14 (1987) 119
Van Binst, P., Guest editorial 23 (1991/92) 1
Van Binst, P., High speed networking for research in Europe: dream, nightmare, utopia or reality? 21 (1991) 353– 354
Van Binst, P., Report on the RARE/CEC symposium on high speed networking for research in Europe 23 (1991/92) 41
Van Binst, P., Guest editorial 25 (1992/93) 327– 328
Van der Schoot, H. and **H. Ural,** Data flow oriented test selection for LOTOS 27 (1994/95) 1111–1136
Van der Veer, G.C., S. Guest, P. Haselager, P. Innocent, E. McDaid, L. Oestreicher, M.J. Tauber, U. Vos and **Y. Wearn,** An interdisciplinary approach to human factors in telematic systems. A review of the problems and possible solutions by a COST-11 ter working group 15 (1988) 73– 80
Van Dijk, N.M., An equivalence of communication protocols for interconnection networks 20 (1990) 277– 283
Van Dijk, N.M., Product forms for random access schemes 22 (1991) 303– 317
Van Dijk, N.M., On the arrival theorem for communication networks 25 (1992/93) 1135–1142
Van Doorn, M. and **A. Eliëns,** Integrating applications and the World-Wide Web 27 (1994/95) 1105–1110
Van Doorn, E.A., *see* **Van Arem, B.** 20 (1990) 309– 314
Van Gent, J., *see* **Ter Stal, W.G.** 30 (1998) 1237–1248
Van Hees, K., VM NNTP: A TCP/IP server application for news 25 (1993/94) S82–S86
Van Heurck, Ph., TRASEC: National security system for EFTs in Belgium 14 (1987) 389– 395
Van Kampen, H., *see* **Jordaan, M.J** 14 (1987) 359– 364
Van Ossenbruggen, J., *see* **Eliëns, A.** 29 (1996/98) 897– 903
Van Ossenbruggen, J., A. Eliëns, L. Rutledge and **L. Hardman**, Requirements for multimedia markup and style sheets on the World Wide Web 30 (1998) 694– 696
Van Reeth, F. and **Coninx, K.,** Using networked multimedia in computer graphics education 30 (1998) 2065–2073
Van Reeth, F., *see* **Baerten, H.** 30 (1998) 1833–1839
Van Reeth, F., *see* **Coninx, K.** 29 (1996/98) 1685–1693
Van Sinderen, M., L. Ferreira Pires, C.A. Vissers and **J.-P. Katoen,** A design model for open distributed processing systems 27 (1994/95) 1263–1285
Van Sinderen, M.J., *see* **Quartel, D.A.C.** 29 (1996/98) 413– 436
Van Swaay, M., The value and protection of privacy 26 (1994/95) S149–S155
Van Till, J., The A-ISDN proposal to bridge ''personal computers'' and ''ISDN'' 17 (1989) 149– 152
Van Welie, M., *see* **Eliëns, A.** 29 (1996/98) 897– 903
Van Wingen, J.W., Networksand coded character sets 19 (1990) 275– 284
Vanderheiden, G.C., Anywhere, anytime (+anyone) access to the next-generation WWW 29 (1996/98) 1439–1446
Vannozzi, D., *see* **Abba, L.** 19 (1990) 350– 355
Vantaggiato, A., Automatic exams management with the Common Lisp HTTP Server 30 (1998) 697– 698
Varadhan, K., *see* **Govindan, R.** 30 (1998) 1157–1174

Varakulsiripunth, R., N. Shiratori and **S. Noguchi,** A congestion-control policy on the internetwork gateway 11 (1986) 43– 58
Varela, C.A. and **G.A. Agha**, What after Java? From objects to actors 30 (1998) 573– 577
Varian, H.R., *see* **MacKie-Mason, J.K.** 28 (1995/96) 257– 265
Varvarigos, E.A. and **Sharma, V.,** An efficient reservation connection control protocol for gigabit networks 30 (1998) 1135–1156
Varvitsiotis, A.P. and **G.I. Stassinopoulos,** Extending ASN.1 into a full-fledged constraint language in the context of OSI protocol conformance testing 25 (1992/93) 1243–1263
Vasilakos, A.V., C.A. Moschonas and **C.T. Paximadis,** Variable window flow control and ergodic discretized learning algorithms for adaptive routing in data networks 22 (1991) 235– 248
Vasilakosi, A.V., *see* **Atlasis, A.F.** 30 (1998) 9–23
Vastola, K.S., *see* **Kabatepe, M.** 30 (1998) 1013–1027
Vasukiammaiyar, D., *see* **Raghavan, S.V.** 27 (1994/95) 1193–1206
Vatton, I., *see* **Quint, V.** 27 (1994/95) 831– 840
Vaziri, A., Scientific visualization in high-speed network environments 22 (1991) 111– 129
V. Bochmann, G., Protocol specification for OSI 18 (1989/90) 167– 184
V. Bochmann, G., Specifications of a simplified transport protocol using different formal description techniques 18 (1989/90) 335– 377
V. Bochmann, G., *see* **Petrenko, A.** 29 (1996/98) 81– 106
V. Bochmann, G., R. Dssouli and **O. Rafiq,** Forte'95 (Introduction to theme issue on FORTE'95) 29 (1996/98) 731– 733
V. Bochmann, G., S. Poirier and **P. Mondain-Monval,** Object-oriented design for distributed systems: The OSI directory example 27 (1994/95) 571– 590
V.d. Broek, G., *see* **Faux, I.** 30 (1998) 1249–1262
Veeraraghavan, M., *see* **Albanese, C.S.** 29 (1996/98) 535– 537
Veiga, P., *see* **Altaber, J.** 23 (1991/92) 139– 142
Veirø, B., Traffic measurement on variable bit rate (VBR) sources with application to charging principles 20 (1990) 435– 445
Velthuijsen, H., *see* **Kimbler, K.** 30 (1998) 1363–1387
Velthuys, R.J., *see* **Schneider, J.M.** 5 (1992/93) 43– 61
Veltink, G., The PSF toolkit 25 (1992/93) 875– 898
Vemuru, C.S., *see* **Maly, K.J.** 27 (1994/95) 849– 860
Venieris, I.S., *see* **Stassinopoulos, G.I.** 23 (1991/92) 287– 304
Venkat Rangan, P., S. Ramanathan and **T. Kaeppner,** Performance of inter-media synchronizationin distributed and heterogeneous multimedia systems 27 (1994/95) 549– 565
Venkataraman, K. and **T. Poston,** Piece-wise linear morphing and rendering with 3D textures 29 (1996/98) 1625–1633
Venkatasubramanian, S., *see* **Bharat, K.** 30 (1998) 469– 477
Vèque, V. and **J. Ben-Othman,** MRAP: a multiservices resource allocation policy for wireless ATM network 29 (1996/98) 2187–2200
Vera, C., *see* **Felez, J.** 30 (1998) 1907–1914
Vercoustre, A.-M., *see* **Michard, A.** 30 (1998) 1185–1200
Verhaard, L., An introduction to Z.105 28 (1995/96) 1617–1667
Verschuren, T., Smart access: strong authentication on the web 30 (1998) 1511–1519
Verschuren, T., *see* **Dixon, T.** 30 (1998) 1559–1569
Vidaller, L., *see* **Miguel, C.** 25 (1992/93) 791– 814
Vidaller, Sizó, L., see Ruiz Piñar, F.J. 30 (1998) 1543–1549
Vijayashankar, R., *see* **Mohan, G.** 30 (1998) 2349–2358
Villén-Altamirano, M., *see* **Berger, A.W.** 30 (1998) 1327–1340
Vingralek, R., *see* **Scheuermann, P.** 29 (1996/98) 997–1005
Viniotis, I., *see* **Karlsson, J.M.** 24 (1992) 93– 103
Vissers, C.A., *see* **Brinksma, E.** 22 (1991) 1– 6
Vissers, C.A., *see* **Quartel, D.A.C.** 29 (1996/98) 413– 436
Vissers, C.A., *see* **van Sinderen, M.** 27 (1994/95) 1263–1285
Vista, D., *see* **Lee, D.** 30 (1998) 656– 657
Viswanathan, T., *see* **Panda, D.K.** 15 (1988) 217– 223
Vitale, M., *see* **Gaibisso, C.** 26 (1994/95) S139–S146
Vitali, F., Chiu, C.-M. and **Bieber, M.,** Extending HTML in a principled way with displets 29 (1996/98) 1115–1128
Vitali, F., *see* **Ciancarini, P.** 28 (1995/96) 941– 952
Vitali, F., *see* **Ciancarini, P.** 30 (1998) 225– 237
Vizine-Goetz, D., J. Godby and **M. Bendig,** Spectrum: a Web-based tool for describing electronic resources 27 (1994/95) 985–1001
Vo, H., *see* **Simonson, J.** 30 (1998) 337– 345
Vöckler, J.-S., *see* **Grimm, C.** 30 (1998) 1687–1695
Vöckler, J.-S., *see* **Grimm, C.** 30 (1998) 2269–2278
Vogel, P., *see* **Clausnitzer, A.** 27 (1994/95) 1017–1026
Vognild, L.K., *see* **Kongsli, T.A.** 21 (1991) 293– 297
Voipio, M., *see* **Altaber, J.** 23 (1991/92) 139– 142
Von Bochmann, G., *see* **Hafid, A.** 30 (1998) 777
Vos, U., *see* **Van der Veer, G.C.** 15 (1988) 73– 80
Vranesic, Z.G., *see* **Loucks, W.M.** 11 (1986) 133– 146
Vu, K., *see* **Doeringer, W.** 29 (1996/98) 137– 155
Vuong, S., *see* **de Meer, J.** 23 (1991/92) 363– 392
Vuong, S., *see* **Neufeld, G.** 23 (1991/92) 393– 415
Vuong, S.T., *see* **Chanson, S.T.** 25 (1992/93) 723– 739
Vuong, S.T., *see* **Chanson, S.T.** 28 (1995/96) 1721–1722

Wacker, C., Interconnection of LANs using ISDN 15 (1988) 73– 80
Waern, Y., *see* **Van der Veer, G.C.**
Waidner, M., *see* **Schunter, M.** 30 (1998) 1501–1510
Wakahara, Y. and **A. Ito,** Prototyping system for telecommunications software based on abstract execution of requirements specifications 13 (1987) 119– 128
Wakid, S., *see* **Holman, T.** 18 (1989/90) 65– 71
Walker, W.M., *see* **Senior, J.M.** 13 (1987) 275– 289
Wallace, B., OSI migration 25 (1992/93) 540– 545
Wallis, J., *see* **Jenkins, C.** 30 (1998) 646– 648
Walrand, J., *see* **Hsu, I.** 28 (1995/96) 1739–1751
Walsh, W., *see* **Wray, III, R.E.** 28 (1995/96) 167– 178
Walter, T., *see* **Kristoffersen, F.** 29 (1996/98) 15– 47
Wang, F.-H., On the design of an intelligent exploratory environment for geographic climates on WWW 30 (1998) 699– 700
Wang, J., *see* **Chang, J.-F.** 12 (1986) 311– 327
Wang, P.T.R. and **M.F. McGurrin,** CSMA/CD LANs with overload detection and protection 11 (1986) 111– 120
Wang, S.-Y., *see* **Chang, C.-J.** 25 (1992/93) 191– 201
Wang, W. and **F.A. Tobagi,** The Christmas-tree switch: an output queuing space-division fast packet switch based on interleaving distribution and concentration functions 25 (1992/93) 631– 644
Wang, X., J. Kaniyil, Y. Onozato and **S. Noguchi,** Heterogeneous ALOHA networks: a sufficient condition for all equilibrium states to be stable 22 (1991) 213– 224
Wang, Y.-M., *see* **Damani, O.P.** 29 (1996/98) 1019–1029
Wang, Y.-T., *see* **Chong, S.** 29 (1996/98) 2201–2212
Wantz, L.J. and **M. Miller**, Educational metadata in use 30 (1998) 701– 703
Wantz, L.J., *see* **Miller, M.** 30 (1998) 663– 665
Warfield, B. and **P. Sember,** Prospects for the use of artificial intelligence in real-time network traffic management 20 (1990) 163– 169
Watkins, J., COPEARMS and ERMS: safeguarding intellectual property rights in the digital age 30 (1998) 1589–1595
Watson, P., *see* **Caughey, S.** 30 (1998) 619– 620
Watters, C. and **M. Shepherd**, The Web and hypertext applications 30 (1998) 704– 706
Waugh, A., Specifying metadata standards for metadata tool configuration 30 (1998) 23– 32
Way, D., *see* **Bachiochi, D.** 29 (1996/98) 1489–1496
Weaver, A.C., *see* **Dempsey, B.J.** 28 (1995/96) 719– 736
Weber, K., Chapter 6, in which Pooh proposes improvements to Web authoring tools, having seen said tools for the Unix platform 27 (1994/95) 823– 829
Weegenaar, M.J., Cooperative basic research in teleinformatics in Europe 11 (1986) 257– 259
Weglarz, J., *see* **Nakonieczny, M.** 30 (1998) 1669–1676
Wegner, R., *see* **Jonas, K.** 28 (1995/96) 563– 573
Wei, L. and **P. Hansson**, Further research on dynamic time slice in ATM switch 28 (1995/96) 789– 798
Weibel, S., E. Miller, J. Godby and **R. LeVan**, An architecture for scholarly publishing on the World Wide Web 28 (1995/96) 239– 245
Weider, C., Wild beasts and unapproachable bogs 27 (1994/95) 361– 366
Weinstock, J. and **R. Tewari,** An object-oriented approach to the management of distributed application systems 29 (1996/98) 1869–1879
Weiss, R., *see* **Sheldon, M.A.** 27 (1994/95) 953– 972
Weldon, N., *see* **O'Mahony, D.** 27 (1994/95) 691– 701
Wells, D., 10 Mbps X.25! 19 (1990) 224– 227
Wen, W., *see* **Sember, P.P.** 30 (1998) 682– 684
Weng, C.-M., *see* **Li, J.-J.** 27 (1994/95)) 1499–1522
Wessels, D., *see* **Hamilton, M.** 30 (1998) 2079–2079
Wessels, D., *see* **Huffaker, B.** 30 (1998) 2131–2139
Wessels, D., *see* **Rousskov, A.** 30 (1998) 2155–2168–2252
West, C.H., A validation of the OSI session layer protocol 11 (1986) 173– 182
West, C.H., Protocol validation - principles and applications 24 (1992) 219– 242
West, C.H. and **A. Tosi,** Experiences with a random test driver 27 (1994/95) 1163–1174
West, C.H., *see* **Rudin, H.** 14 (1987) 1– 2
West, E.J.W., Using the Internet for business — Web oriented routes to market and existing IT infrastructures 29 (1996/98) 1769–1776
Westbrock, H., *see* **Bauerfeld, W.** 23 (1991/92) 143– 151
Wester, E.M. and **J. Truijens,** Editorial (to RARE'89 special issue) 17 (1989) 233– 235
Whinnett, D., *see* **Schunter, M.** 30 (1998) 1501–1510
Whitcroft, A. and **T. Wilkinson,** A tangled Web of Deceit 27 (1994/95) 228– 234
White, M., *see* **Bristow, P.** 30 (1998) 610– 611
Whitehead, S.D., Auto-FAQ: an experiment in cyberspace leveraging 28 (1995/96) 137– 146
Whittington, D. and **L. Campbell,** Task-based learning environments in a virtual university 30 (1998) 707– 709
Wicke, R., *see* **Gellersen, H.-W.** 29 (1996/98) 1429–1437
Wiegley, J., *see* **Goldberg, K.** 28 (1995/96) 209– 219
Wierzbicki, A., *see* **Kurcewicz, M.** 30 (1998) 2203–2209
Wierzbicki, A., *see* **Kurcewicz, M.** 30 (1998) 2261–2267
Wiesener, S., *see* **Clausnitzer, A.** 27 (1994/95) 1017–1026
Wijgerde, J., The COSINE quality of service project 25 (1992/93) 566– 569

Wilbur, S. and **S. Ing**, Real-time video for informal workgroup communication: a survey of recent advances 28 (1995/96) 491– 497
Wildgruber, G., *see* **Trevor, J.** 28 (1995/96) 1053–1062
Wilhelm, M., Migration for users 16 (1988/89) 40– 43
Wilkin, L., *see* **Van Binst, P.** 14 (1987) 119
Wilkinson, S., *see* **Valkenburg, P.** 30 (1998) 1571–1578
Wilkinson, T., *see* **Whitcroft, A.** 27 (1994/95) 228– 234
Willebeek-LeMair, M., *see* **Patel, B.** 28 (1995/96) 1791–1807
Williams, N., *see* **Coulson, G.** 25 (1992/93) 305– 323
Williams, P., *see* **Kirstein, P.T.** 25 (1992/93) 483– 489
Williams, P.M., Requirements and issues for automatic focused overload control 28 (1995/96) 619– 625
Willinger, W., *see* **Ramaswami, V.** 20 (1990) 401– 407
Wills, C.E., Brown, D.C., Dunskus, B.V. and **Kemble, J.**, Evaluating network serviceability 30 (1998) 2283–2291
Wills, C.E., *see* **Krishnamurthy, B.** 30 (1998) 185– 193
Wilson, E., *see* **Hogan, M.** 29 (1996/98) 595– 610
Wilson, P., Computer Supported Cooperative Work (CSCW): origins, concepts and research initiatives 23 (1991/92) 91– 95
Winograd, T., *see* **Kamiya, K.** 28 (1995/96) 1157–1174
Winograd, T., *see* **Röscheisen, M.** 27 (1994/95) 739– 749
Wirth, P.E., Teletraffic implications of database architectures in mobile and personal communications 28 (1995/96) 613– 618
Wit, C., Introductory Speech at "*ISDN in Europe*" Conference April 25–27, The Hague, Netherlands 18 (1989/90) 147– 148
Wittevrongel, S., *see* **Bruneel, H.** 28 (1995/96) 325– 343
Wobber, E., *see* **Abadi, M.** 30 (1998) 531– 539
Woetzel, G., *see* **Appelt, W.** 30 (1998) 499– 508
Wolf, H. and **K. Froitzheim**, User space meets document space 30 (1998) 710– 712
Wolfe, S.R., *see* **Keller, R.M.** 29 (1996/98) 1103–1114
Wolff, S., The present networking situation in the USA 16 (1988/89) 89– 91
Wong, J.S.K. and **Y. Kang,** Distributed and fail-safe routing algorithms in toroidal-based metropolitan area networks 18 (1989/90) 379– 391
Wong, J.-W., *see* **Chang, C.-J.** 22 (1991) 225– 232
Wong, J.W., *see* **Harms, J.J.** 27 (1994/95) 1487–1497
Woodcock, A., Towards the application of OSI standards 14 (1987) 291– 295
Woodruff, A., P.M. Aoki, E. Brewer, P. Gauthier and **L.A. Rowe**, An investigation of documents from the World Wide Web 28 (1995/96) 963– 980
Woodruff, G., R. Kositpaiboon, G. Fitzpatrick and **P. Richards,** Control of ATM statistical multiplexing performance 20 (1990) 351– 360
Woodside, C.M., *see* **Mehmet Ali, M.K.** 15 (1988) 109– 119
Woodward, K.N., *see* **Seiler, R.J.** 30 (1998) 739– 741
Wooster, R.P. and **Abrams, M.,** Proxy caching that estimates page load delays 29 (1996/98) 977– 986
Worsfold, E., Subject gateways: fulfilling the DESIRE for knowledge 30 (1998) 1479–1489
Worst, R., *see* **Bogen, M.A.** 26 (1994/95) S107–S118
Wozniak, J., *see* **Fratta, L.** 16 (1988/89) 229– 242
Wray, M. and **R. Hawkes**, Distributed virtual environments and VRML: an event-based architecture 30 (1998) 43– 51
Wray, III, R.E., R. Chong, J. Phillips, S. Rogers, W. Walsh and **J. Laird**, Organizing information in Mosaic: a classroom experiment 28 (1995/96) 167– 178
Wu, C.-S., J.-C. Jiau and **K.-J. Chen,** Providing traffic smoothness and service guarantees within ATM networks through a rate-controlled service discipline 29 (1996/98) 2119–2138
Wu, C.-S., *see* **Huang, N.-F.** 27 (1994/95) 101– 116
Wu, J.C.-H., *see* **Rubin, I.** 29 (1996/98) 249– 266
Wu, J.-L.C., *see* **Huang, T.-Y.** 27 (1994/95) 45– 66
Wu, O.P., *see* **Yong, L.K.** 30 (1998) 271– 279
Wu, S., MHS security-a concise survey 25 (1992/93) 490– 495
Wu, X., *see* **Lowder, J.** 30 (1998) 658– 659
Wu, X., *see* **Ngu, D.S.W.** 29 (1996/98) 1249–1255
Wu, X., *see* **Nguyen, T.-L.** 30 (1998) 578– 582
Wu, Y.-J., *see* **Huang, N.-F.** 27 (1994/95) 101– 116
Wulfekuhler, M.R. and **Punch, W.F.,** Finding salient features for personal Web page categories 29 (1996/98) 1147–1156

Xiang, Y., *see* **Yu, J.** 29 (1996/98) 875– 886
Xie, M., *see* **Simonson, J.** 30 (1998) 337– 345
Xiong, Y. and **Mason, L.**, Analysis of multicast ATM switching networks using CRWR scheme 30 (1998) 835

Yachida, M., *see* **Ohsawa, Y.** 30 (1998) 669– 671
Yajnik, S., *see* **Rangarajan, S.** 30 (1998) 327– 336
Yamaguchi, S., *see* **Demizu, N.** 27 (1994/95) 493– 502
Yamamuro, M., *see* **Mase, K.** 20 (1990) 155– 161
Yan, J., Dimensioning network resources for IN services 28 (1995/96) 627– 633
Yan, T.W., M. Jacobsen, H. Garcia-Molina and **U. Dayal**, From user access patterns to dynamic hypertext linking 28 (1995/96) 1007–1014
Yan, X., The design of an experimental computer LAN interconnection in university environment 15 (1988) 369– 373
Yan, X. and **Chen, K.-L.,** Inter-network connection of the local area networks C-Net and Omninet 16 (1988/89) 405– 414
Yang, J.J. and **G.E. Kaiser**, An architecture for integrating OODBs with WWW 28 (1995/96) 1243–1254

Yang, Q., D. Ghosal and **S.K. Tripathi,** Performance study of two protocols for voice/data integration on ring networks 23 (1991/92) 267– 285
Yang, T.-H., *see* **Chang, J.-F.** 21 (1991) 1– 16
Yanney, R.M. and **J.P. Hayes,** Fault recovery in distributed processing loop networks 15 (1988) 229– 243
Yao, M., *see* **Petrenko, A.** 29 (1996/98) 81– 106
Yap, F.T., *see* **Ko, C.C** 16 (1988/89) 347– 355
Yavatkar, R., *see* **Comer, D.** 14 (1987) 383– 388
Yeh, P.-J., B.-H. Chen, M.-C. Lai and **S.-M. Yuan**, Synchronous navigation control for distance learning on the Web 28 (1995/96) 1207–1218
Yeh, W.P., J.L. Hammond and **D. Tipper,** Design and evaluation of a method for admission control for broadband packet networks 27 (1994/95) 1349–1366
Yochai, H., *see* **Herzberg, A.** 29 (1996/98) 939– 951
Yokohira, T., T. Nishida and **H. Miyahara,** Analysis of dynamic behavior in p-persistent CSMA/CD using cusp catastrophe 12 (1986) 277– 289
Yokotani, T., H. Sato and **S. Nakatsuka,** A study on a performance improvement algorithm in DQDB MAN 25 (1992/93) 1107–1117
Yong, L.K., L. Hai and **O.P. Wu,** Java Input Method Engine 30 (1998) 271– 279
Yoon, C.H. and **C.K. Un,** Unslotted CSMA-CD protocols with combined retransmission strategy for fiber optic bus and ring networks 21 (1991) 381– 397
Yoshida, A., MOWS: distributed Web and cache server in Java 29 (1996/98) 965– 975
Yoshida, K., *see* **Nishikawa, N.** 30 (1998) 205– 214
Yoshida, K.-I., *see* **Togawa, T.** 12 (1986) 175– 182
Yoshida, M., *see* **Ikeuchi, N.** 17 (1989) 29– 36
Yoshimura, M., *see* **Kim, J.B.** 27 (1994/95) 5– 27
Youn, Y.S. and **C.K. Un,** Performance analysis of an integrated voice/data cut-through switching network 21 (1991) 41– 51
Young, G., Academic networking in Ireland 19 (1990) 191– 194
Young, Y.-C., *see* **Tai, K.-C.** 30 (1998) 1111–1134
Ysebaert, C., *see* **Bruneel, H.** 19 (1990) 129– 142
Yu, J. and **Xiang, Y.,** Hypermedia presentation and authoring system 29 (1996/98) 875– 886
Yu, P.S. and **E.A. MacNair**, Performance study of a collaborative method for hierarchical caching in proxy servers 30 (1998) 215– 224
Yuan, S.-M., *see* **Yeh, P.-J.** 28 (1995/96) 1207–1218
Yuklea, H., An FDDI overview: some questions answered 19 (1990) 228– 232

Zatti, S. and **P. Janson,** Interconnecting OSI and non-OSI networks using an integrated directory service 15 (1988) 269– 283
Zave, P., *see* **Courtiat, J.-P.** 28 (1995/96) 1845–1855
Zegwaart, E., Privacy Enhanced Mail in more detail 25 (1993/94) S63– S71
Zeiliger, R., *see* **Bessière, C.** 23 (1991/92) 157– 161
Zeng, H.X., S.T. Chanson and **B.R. Smith,** On ferry clip approaches in protocol testing 17 (1989) 77– 88
Zeng, H.X., Q. Li, X.F. Du and **C.S. He,** New advances in ferry testing approaches 15 (1988) 47– 54
Zernik, D., *see* **Maarek, Y.S.** 29 (1996/98) 1269–1279
Zhang, D. and **W. Zorn**, Developing network management applications in an application-oriented way using mobile agent 30 (1998) 1551–1557
Zhang, D., *see* **Tong, F.H.F.** 30 (1998) 2059–2064
Zhang, H., *see* **Berzsenyi, M.** 30 (1998) 1467–1473
Zhang, L., *see* **Michel, S.** 30 (1998) 2169–2177
Zhang, X., *see* **Simonson, J.** 30 (1998) 337– 345
Zhang, X.-Y. and **R.H. Deng,** Gateway design for LAN interconnection via ISDN 19 (1990) 43– 51
Zhao, X., Present situation of OSI standards in China 16 (1988/89) 83– 88
Zheng, C., *see* **Kuo, F.** 27 (1994/95) 419– 427
Zhou, B. and **M. Atiquzzaman**, Efficient analysis of Multistage Interconnection Networks using finite output-buffered switching elements 28 (1995/96) 1809–1829
Zieliński, K., *see* **Greaves, D.J.** 25 (1992/93) 1127–1133
Zieliński, K., *see* **Mojsa, T.** 29 (1996/98) 865– 873
Zier, S., *see* **Bogen, M.** 28 (1995/96) 1187–1196
Zimmermann, S., *see* **Apostolopoulos, N.** 28 (1995/96) 1873–1886
Zinky, J.A. and **J. Etkin,** Troubleshooting throughput bottlenecks using executable models 24 (1992) 33– 43
Zissopoulos, A. and **C. Tropper,** On buffer allocation in transport protocols 16 (1988/89) 383– 393
Zitterbart, M., *see* **Albanese, C.S.** 29 (1996/98) 535– 537
Znaty, S., *see* **Simoni, N.** 25 (1992/93) 570– 576
Zoccolini, F., *see* **Lenzini, L.** 24 (1992) 65– 79
Zorn, W., *see* **Zhang, D.** 30 (1998) 1551–1557
Zörntlein, G., *see* **Schneider, J.M.** 25 (1992/93) 43– 61
Zue, V., *see* **Lau, R.** 29 (1996/98) 1385–1393
Zukerman, M., Circuit allocation and overload control in a hybrid switching system 16 (1988/89) 281– 298
Zukerman, M. and **P.G. Potter,** The DQDB protocol and its performance under overload traffic conditions 20 (1990) 261– 270
Zukerman, M., *see* **Potter, P.G.** 20 (1990) 217– 222
Zweig, G., *see* **Broder, A.Z.** 29 (1996/98) 1157–1166

ELSEVIER

Computer Networks and ISDN Systems 30 (1998) 2449–2489

COMPUTER NETWORKS and ISDN SYSTEMS

Subject Index to Volumes 11–30

AALs, 24 (1992) 243; 25 (1993/94) S135; 29 (1996/98) 2021
ABR, 29 (1996/98) 2091, 2103; 30 (1998) 1735, 1775, 1793
ABR (available bit rate), 29 (1996/98) 2139
ABR flow control, 29 (1996/98) 2201
ABR service, 30 (1998) 1763
Abstract data types, 16 (1988/89) 311; 23 (1991/92) 363
Abstract execution, 13 (1987) 119
Abstract syntax, 14 (1987) 297; 22 (1991) 61; 23 (1991/92) 393
Abstract Syntax Notation 1 (ASN.1), 27 (1994/95) 571
Abstract test methods, 17 (1989) 77
Abstraction, 28 (1995/96) 1603
Academic and industrial research, 28 (1995/96) 1991
Acceptable use, 23 (1991/92) 33
Access, 29 (1996/98) 1367, 1395
Access and visualization, 30 (1998) 359
Access architecture, 29 (1996/98) 137
Access buffer, 30 (1998) 999
Access control, 15 (1988) 67; 19 (1990) 105; 23 (1991/92) 163; 24 (1992) 81; 27 (1994/95) 765, 1055, 1411; 28 (1995/96) 499
Access control strategies, 24 (1992) 421
Access delay, 29 (1996/98) 1933
Access method, 17 (1989) 193
Access networks, 30 (1998) 1295
Access pattern analysis, 28 (1995/96) 1457
Access points, 17 (1989) 346; 18 (1989/90) 133
Access protocol, 15 (1988) 31; 17 (1989) 89, 101; 18 (1989/90) 323; 19 (1990) 25
Access windows, 14 (1987) 305
Accessibility, 29 (1996/98) 1439, 1519
Accounting, 28 (1995/96) 37
Acknowledgements, 12 (1986) 89
Acounting, 26 (1994/95) S157
Acrobat, 26 (1994/95) S15
Actions, 29 (1996/98) 413
Active, 28 (1995/96) 1355
Active documents, 30 (1998) 251
Active fields, 29 (1996/98) 1531
Active networks, 29 (1996/98) 735
Active objects, 28 (1995/96) 1037
Active (passive) ferry clip, 17 (1989) 77
Active Views, 30 (1998) 1491
Activity, 28 (1995/96) 1685; 30 (1998) 359
Activity (work activity), 14 (1987) 231
Activity-level interface integration, 28 (1995/96) 1157
Actors, 30 (1998) 573
Ada, 22 (1991) 51
Adaptive bandwith reservation, 28 (1995/96) 391
Adaptive caching, 30 (1998) 2149
Adaptive hypermedia, 30 (1998) 291
Adaptive hypertext, 30 (1998) 666
Adaptive navigation support, 30 (1998) 291
Adaptive polling, 24 (1992) 93
Adaptive retrieval, 29 (1996/98) 1103
Adaptive routing, 11 (1986) 203; 20 (1990) 143, 203; 22 (1991) 235; 28 (1995/96) 401
Adaptive system, 30 (1998) 649
Additional packet mode, 14 (1987) 339
Address assignments, 11 (1986) 133
Address mapping, 16 (1988/89) 48; 19 (1990) 251
Address notation, 17 (1989) 263
Address resolution, 13 (1987) 257; 18 (1989/90) 243; 29 (1996/98) 137
Address syntax, 17 (1989) 263
Addressing, 15 (1988) 269; 16 (1988/89) 48; 17 (1989) 47; 19 (1990) 246; 23 (1991/92) 241; 25 (1993/94) S3
Addressing mechanisms, 15 (1988) 97
Administration, 14 (1987) 267; 27 (1994/95) 1089
Administrative domains, 19 (1990) 105
Admission control, 20 (1990) 189, 197; 24 (1992) 171; 27 (1994/95) 67, 1349; 29 (1996/98) 569, 631; 30 (1998) 795
Adoption, 30 (1998) 629
ADPCM, 18 (1989/90) 55
Advanced communications, 21 (1991) 247
Advanced research and education, 30 (1998) 723

Advertisement, 28 (1995/96) 1493
Advertising agent, 28 (1995/96) 1493
Aeronautics, 21 (1991) 323
Affine geometry, 29 (1996/98) 1645
Agent, 28 (1995/96) 1501; 29 (1996/98) 1167; 30 (1998) 33, 591, 624, 643, 2283
Agent programming, 28 (1995/96) 1373
Agent support, 28 (1995/96) 85
Agreements, 26 (1994/95) S149; 18 (1989/90) 65
AIDE, 28 (1995/96) 1335
AIN, 30 (1998) 1421
AK TPDU, 11 (1986) 353
Albatross, 28 (1995/96) 1207
ALF, 29 (1996/98) 735
Algebraic geometry, 29 (1996/98) 1695
Algebraic specification techniques, 23 (1991/92) 363
Algorithm, 11 (1986) 43; 30 (1998) 1029
Algorithm animation, 29 (1996/98) 1577
Algorithm visualization, 30 (1998) 1833
Alienation, 14 (1987) 267
All-optical networks, 30 (1998) 1065
ALOHA, 12 (1986) 39, 329
ALOHA/BTMA/CSMA, 22 (1991) 303
Analysis, 11 (1986) 367; 18 (1989/90) 293; 28 (1995/96) 1857; 30 (1998) 551
Analysis and verification, 16 (1988/89) 197; 18 (1989/90) 185
Analysis of protocols, 30 (1998) 1013
Analysis of traffic patterns in networks, 23 (1991/92) 73
Analytic modeling, 11 (1986) 43, 111
Analytical and functional studies, 16 (1988/89) 299
Analytical model, 27 (1994/95) 1447
Analytical solution, 22 (1991) 277
Anchor text, 30 (1998) 65
Animation, 29 (1996/98) 1519; 30 (1998) 1951
Annotations, 28 (1995/96) 1063; 30 (1998) 718
Anonymity, 13 (1987) 235
Anonymity and identification, 19 (1990) 196
ANSI, 17 (1989) 312; 18 (1989/90) 65
Apache, 30 (1998) 337
API, 21 (1991) 175; 28 (1995/96) 1113
Apple Newton, 28 (1995/96) 53
Applets, 28 (1995/96) 1355; 29 (1996/98) 1577
Application generators, 29 (1996/98) 1507
Application integration, 28 (1995/96) 1053
Application language, 21 (1991) 357
Application layer, 21 (1991) 357
Application level gateways, 13 (1987) 195
Application protocol, 21 (1991) 357
Application-level routing, 28 (1995/96) 921
Applications, 18 (1989/90) 65; 21 (1991) 175; 22 (1991) 83; 23 (1991/92) 87; 29 (1996/98) 1193
Applications in education and training, 30 (1998) 697
Applications management, 29 (1996/98) 1869
Applications project, 16 (1988/89) 150
Approximate analysis, 24 (1992) 185
Approximate queuing formulas, 20 (1990) 285
Approximation algorithm, 21 (1991) 121
Approximations, 18 (1989/90) 263; 20 (1990) 309
Architectural principle, 29 (1996/98) 397
Architectural semantics, 27 (1994/95) 1215; 29 (1996/98) 437, 457
Architecture, 11 (1986) 287; 14 (1987) 61; 29 (1996/98) 397, 437, 473, 501
Archives, 27 (1994/95) 1089
Archiving, 30 (1998) 337
Arequipa, 30 (1998) 2327
ARPANET, 16 (1988/89) 89
ARQ, 19 (1990) 129; 28 (1995/96) 873
Arrival rate, 12 (1986) 277
Artificial intelligence, 20 (1990) 163; 30 (1998) 699
Artificial life, 30 (1998) 1923
ASCII, 19 (1990) 275
ASHE, 27 (1994/95) 823
ASN.1, 14 (1987) 297; 18 (1989/90) 203; 27 (1994/95) 1367; 28 (1995/96) 1617, 1685
Assessment, 30 (1998) 739, 1717
Assessment to security, 17 (1989) 223
Asset, 17 (1989) 315
Assignment, 15 (1988) 189
ASTRA user interface, 19 (1990) 350
Astronomy, 28 (1995/96) 161
Asymmetric routing, 30 (1998) 2337
Asymmetrical encipherment algorithm, 13 (1987) 235
Asynchronous, 21 (1991) 299
Asynchronous collaboration, 28 (1995/96) 69
Asynchronous datacommunications, 17 (1989) 149
Asynchronous Transfer Mode, 14 (1987) 339; 20 (1990) 343; 24 (1992) 335; 28 (1995/96) 307; 29 (1996/98) 181, 569; 30 (1998) 1811, 2293, 2359
ATM, 20 (1990) 27, 189, 197, 323, 351, 369, 435; 22 (1991) 155; 23 (1991/92) 129, 287; 24 (1992) 93, 243, 277, 279; 25 (1993/94) S105, S111, S135; 26 (1994/95) S29, S179; 27 (1994/95) 5, 29, 67, 85, 117, 627, 703; 28 (1995/96) 345, 391, 471, 575, 589, 789, 835, 1753, 1791, 1915, 1929, 1953; 29 (1996/98) 195, 209, 237, 293, 539, 583, 797, 811, 1857, 1901, 2021, 2165; 30 (1998) 835, 963, 1029, 1097, 1327, 1447, 1669, 1735, 1749, 1775, 1793, 2327
ATM adaptation layer services, 29 (1996/98) 181

ATM bandwidth utilization, 23 (1991/92) 287
ATM network dimensioning, 20 (1990) 197
ATM networks, 20 (1990) 391; 24 (1992) 311; 28 (1995/96) 635, 1723, 1809; 29 (1996/98) 325, 343, 555, 2139, 2153, 2201; 30 (1998) 951, 1763
ATM networks and systems, 29 (1996/98) 583
ATM output multiplexer, 29 (1996/98) 1919
ATM standards, 27 (1994/95) 5
ATM switch, 27 (1994/95) 611; 29 (1996/98) 157, 2039; 30 (1998) 2309, 2337
ATM switch design, 28 (1995/96) 471
ATM switch mechanisms, 30 (1998) 1749
ATM switching, 27 (1994/95) 1499, 1567; 28 (1995/96) 1809; 29 (1996/98) 1953
ATM switching elements, 28 (1995/96) 325
ATM technology, 30 (1998) 1697
ATM traffic categories, 28 (1995/96) 471
ATM traffic control, 24 (1992) 321
ATM traffic management, 28 (1995/96) 471
ATM-based teleteaching, 30 (1998) 1707
ATM/B-ISDN, 29 (1996/98) 595
Atmosphere, 28 (1995/96) 189
ATM/STM, 18 (1989/90) 47
Atomic actions, 29 (1996/98) 1281
Atomicity, 29 (1996/98) 1809
Attack, 17 (1989) 315
Attribute grammars, 22 (1991) 61
Attributes, 23 (1991/92) 211
Audio, 29 (1996/98) 1377; 30 (1998) 721
Audio conference, 26 (1994/95) S139
Audio interfaces, 29 (1996/98) 1395
Audit, 30 (1998) 541
Audit trails, 30 (1998) 587
Augmented reality, 30 (1998) 1447
Authentication, 11 (1986) 297; 13 (1987) 235; 14 (1987) 389; 17 (1989) 315; 19 (1990) 105, 196; 22 (1991) 323; 27 (1994/95) 765, 1047; 28 (1995/96) 499, 1365; 30 (1998) 531, 1511
Authoring, 27 (1994/95) 823, 841; 28 (1995/96) 1027, 1095, 1219; 29 (1996/98) 1129; 30 (1998) 616
Authoring environments, 27 (1994/95) 831, 861, 879; 28 (1995/96) 953, 1233, 1307; 30 (1998) 489
Authoring tools, 30 (1998) 631
Authorization, 17 (1989) 315; 19 (1990) 105; 27 (1994/95) 1055
Author-oriented link management, 28 (1995/96) 1015
Automata, 22 (1991) 35
Automated architectural design service, 29 (1996/98) 1611
Automated development tools, 18 (1989/90) 221
Automated resource discovery, 29 (1996/98) 1237
Automatic classification, 30 (1998) 1
Automatic document converter, 28 (1995/96) 99
Automatic generation of hypertext links, 27 (1994/95) 751
Automatic hypertext generation, 30 (1998) 75
Automatic layout, 29 (1996/98) 1531
Automatic link maintenance, 27 (1994/95) 919
Automatic network controls, 28 (1995/96) 619
Automatic repeat request, 23 (1991/92) 229
Automation, 30 (1998) 636
Availability, 20 (1990) 109; 29 (1996/98) 1317; 30 (1998) 347
Available bit rate, 28 (1995/96) 635; 30 (1998) 1811, 2293
Available bit rate service, 29 (1996/98) 583

Backbone network, 14 (1987) 373; 17 (1989) 29
Backbone network design, 15 (1988) 121
BaKo, 28 (1995/96) 1891
BALSA, 29 (1996/98) 1577
Bandwidth, 28 (1995/96) 53, 1445; 29 (1996/98) 1357; 30 (1998) 1029
Bandwidth allocation, 16 (1988/89) 217; 20 (1990) 351; 28 (1995/96) 789
Bandwidth balancing, 24 (1992) 145, 367
Bandwidth management, 29 (1996/98) 1857
Bandwidth minimisation, 20 (1990) 95
Bandwidth regulation, 28 (1995/96) 855
Bandwidth reservation, 28 (1995/96) 351
Bank, 13 (1987) 235
Banking, 28 (1995/96) 199
Baseline network, 27 (1994/95) 1499
Basic adaptation sublayer, 23 (1991/92) 287
Basic encoding rules, 14 (1987) 297
Basic ISDN access, 14 (1987) 339
Basic rate interface, 18 (1989/90) 55
Basic reference model (BRM), 23 (1991/92) 343
BCDS, 25 (1993/94) S105
Bearer services 14 (1987) 339, 17 (1989) 37
Behavior based animation, 30 (1998) 1923
Behaviour, 16 (1988/89) 311; 28 (1995/96) 1585; 30 (1998) 676
Behaviour domain, 27 (1994/95) 1263
Behaviour refinement, 29 (1996/98) 413
Behaviour specification, 29 (1996/98) 413
Behaviour structuring techniques, 29 (1996/98) 413
Bell operating company, 16 (1988/89) 187
Benchmarking, 30 (1998) 2179
BERKOM, 28 (1995/96) 1979
Best effort services, 30 (1998) 1531
Bézier control points, 29 (1996/98) 1559
Bézier curves and surfaces, 29 (1996/98) 1559
Bézier tetrahedron, 29 (1996/98) 1715
Bibliographic, 30 (1998) 612

Bibliographic data, 27 (1994/95) 985
Bi-directional multiple access, 28 (1995/96) 283
Binary arbitration, 15 (1988) 217
Binary integrity, 25 (1993/94) S99
Binding, 27 (1994/95) 1075
Biology, 28 (1995/96) 155; 30 (1998) 716
B-ISDN, 18 (1989/90) 47; 19 (1990) 308; 20 (1990) 351, 369, 383, 391, 415, 425; 21 (1991) 285; 22 (1991) 155; 23 (1991/92) 119; 24 (1992) 243, 277, 335; 27 (1994/95) 101, 627, 1387; 28 (1995/96) 675, 811, 1753; 29 (1996/98) 181; 30 (1998) 1327
Bisimulation, 30 (1998) 901
Bit rates, 23 (1991/92) 129
Bit-dropping algorithms, 29 (1996/98) 343
BITNET, 16 (1988/89) 89
BLAN, 17 (1989) 193
Blocking probability, 30 (1998) 821, 2359
Body system, 30 (1998) 1897
Bond graph, 30 (1998) 1907
Bookmarks, 29 (1996/98) 1103; 30 (1998) 658, 747
Bookmark organization, 28 (1995/96) 1321
Both-way link, 20 (1990) 115
Bottlenecks, 21 (1991) 293
Branching time, 24 (1992) 203
Branch-switching, 15 (1988) 177
Bridges, 12 (1986) 81; 13 (1987) 323; 16 (1988/89) 55; 18 (1989/90) 243; 19 (1990) 308
Bridging, 17 (1989) 362
Broadband, 18 (1989/90) 97; 20 (1990) 323; 21 (1991) 247; 28 (1995/96) 411; 29 (1996/98) 1763
Broadband access, 30 (1998) 821
Broadband and multimedia communication, 30 (1998) 865
Broadband ISDN, 14 (1987) 339; 28 (1995/96) 269, 1809; 29 (1996/98) 195, 209
Broadband networks, 11 (1986) 269, 383; 21 (1991) 323; 24 (1992) 277
Broadband packet networks, 27 (1994/95) 1349
Broadcast, 17 (1989) 89, 101; 19 (1990) 308; 30 (1998) 1543
Broadcast delivery, 12 (1986) 107
Broadcast network, 14 (1987) 373; 27 (1994/95) 1523
Broadcasting, 22 (1991) 303
Brokering, 30 (1998) 619
Brokering infrastructures, 30 (1998) 1233
Browsers, 27 (1994/95) 1097; 28 (1995/96) 53, 1037; 29 (1996/98) 1019, 1129; 30 (1998) 251, 658, 30 (1998) 739
Browser-based editor, 29 (1996/98) 1507
Browsers and tools, 29 (1996/98) 1225, 1479
Browsing efficiency, 30 (1998) 587
Brush modeling, 29 (1996/98) 1571
BSCW, 28 (1995/96) 1053
BSI, 17 (1989) 312
BSMTP, 19 (1990) 319
BSP trees, 30 (1998) 1941
Buffer allocation, 16 (1988/89) 383; 20 (1990) 27
Buffer delay, 15 (1988) 109
Buffer design, 19 (1990) 129
Buffer insertion, 15 (1988) 31
Buffer sharing, 21 (1991) 1
Buffered users, 12 (1986) 311
Buffering strategies, 27 (1994/95) 1567
Buffers, 11 (1986) 287
Buffer-traffic flow, 11 (1986) 287
Built-in checklist, 29 (1996/98) 1531
Bulletin board systems, 14 (1987) 137
Buoy, 28 (1995/96) 189
Burst switching, 13 (1987) 21
Burst-level, 29 (1996/98) 617
Bursty arrivals, 24 (1992) 93; 28 (1995/96) 325
Bursty traffic, 24 (1992) 321; 30 (1998) 1083
Bus, 11 (1986) 15
Bus access, 15 (1988) 217
Bus architecture, 24 (1992) 93
Business telecommunications, 20 (1990) 75
Business users' data needs, 21 (1991) 247
Busty traffic, 27 (1994/95) 1175
Busy hour, 20 (1990) 3
Busy tone, 12 (1986) 39
Busy tone multiple access, 12 (1986) 1
BWB, 27 (1994/95) 1137
B-WiN, 30 (1998) 1687, 2269

C + +, 27 (1994/95) 1367
Cable line concentrators, 28 (1995/96) 701
Cable television, 15 (1988) 135
Cable TV, 12 (1986) 11
Cache, 28 (1995/96) 907; 29 (1996/98) 965; 30 (1998) 205, 733, 2123, 2245
Cache coherency, 30 (1998) 185
Cache co-operation, 28 (1995/96) 1407
Cache digest, 30 (1998) 2155
Cache directory, 30 (1998) 682
Cache hierarchy, 30 (1998) 1687, 2269
Cache management, 30 (1998) 195
Cache mesh, 30 (1998) 1687, 2269
Cache replacement, 29 (1996/98) 997
Cache routing, 30 (1998) 2193
Cache server, 29 (1996/98) 987
Cache server performance/metrics, 30 (1998) 2149
Cache transparency, 30 (1998) 682
Caching, 18 (1989/90) 243; 28 (1995/96) 37, 119, 1397, 1415; 29 (1996/98) 977, 1007, 1053; 30 (1998) 601, 682, 1559, 2211, 2223
Caching policies, 30 (1998) 215
Call acceptance, 20 (1990) 197

Call admission control, 29 (1996/98) 539, 555, 2165
Call blocking, 27 (1994/95) 1479
Call blocking rate, 30 (1998) 795
Call charges, 16 (1988/89) 24
Call gapping, 28 (1995/96) 619
Call motives, 14 (1987) 207
Call retries, 30 (1998) 821
Capabilities, 27 (1994/95) 1055
Capacity space, 11 (1986) 287
Capetanakis tree collision resolution algorithm, 18 (1989/90) 275
Capture effect, 11 (1986) 337
Card sorting, 28 (1995/96) 179
Carrier sense, 12 (1986) 1
Carrier sense multiple access, 11 (1986) 111
Cascade benes network, 20 (1990) 383
Cascade clos network, 20 (1990) 383
CASE for education, 23 (1991/92) 157
CASE tools, 30 (1998) 631
Cataloguing, 27 (1994/95) 1003; 30 (1998) 1479
Catastrophe theory, 12 (1986) 277, 329
Categorization, 30 (1998) 1491
CATV networks, 13 (1987) 291; 15 (1988) 177
Causality, 29 (1996/98) 1809
Causality relations, 29 (1996/98) 413
CBT, 30 (1998) 301, 672
CCITT, 12 (1986) 225; 13 (1987) 65, 97; 14 (1987) 339; 16 (1988/89) 40, 311, 395; 18 (1989/90) 65; 23 (1991/92) 11; 24 (1992) 279
CCITT G700, 16 (1988/89) 146
CCITT no. 7 signaling, 20 (1990) 81
CCITT Recommendations, 16 (1988/89) 243; 20 (1990) 3; 24 (1992) 65; 30 (1998) 2373
CCITT X.25, 16 (1988/89) 101; 17 (1989) 332
CCITT X.400, 13 (1987) 195
CCITT X.500, 16 (1988/89) 44, 143
CCSN no. 7, 20 (1990) 425
CDF, 27 (1994/95) 801
CEC communications policy, 16 (1988/89) 64
CEC projects, 23 (1991/92) 115
Cell conformance, 27 (1994/95) 703
Cell insertion, 24 (1992) 335
Cell jitter effects, 30 (1998) 1341
Cell loss, 24 (1992) 335; 27 (1994/95) 45
Cell replication schemes, 30 (1998) 835
Cell scheduling, 29 (1996/98) 555
Cell spacing, 24 (1992) 311
Cell-based mechanism, 30 (1998) 1865
Cellular radio, 20 (1990) 455
Cellular telephony, 20 (1990) 447
Central Europe, 25 (1993/94) S87
Centralized computer networks design, 19 (1990) 1
Centroids, 30 (1998) 1571
CERN, 23 (1991/92) 129; 28 (1995/96) 13
CERT, 23 (1991/92) 167; 28 (1995/96) 1947
Certificate, 13 (1987) 235; 25 (1993/94) S63; 28 (1995/96) 709
Certificate verification, 26 (1994/95) S187
Certification authority, 25 (1993/94) S63; 28 (1995/96) 709, 1901
CGI, 28 (1995/96) 1139, 1523, 1857; 29 (1996/98) 1291
CGI script, 27 (1994/95) 879, 985
CGM, 26 (1994/95) S15
Chain of converters, 16 (1988/89) 55
Challenges, 17 (1989) 256
Change log table, 28 (1995/96) 1015
Channel access protocols, 12 (1986) 39; 13 (1987) 275; 15 (1988) 341
Channel adapter, 17 (1989) 332
Channel bandwidth, 13 (1987) 3
Channel reservation, 27 (1994/95) 1487
Channel structure, 18 (1989/90) 55
Channel throughput, 13 (1987) 333
Character sets, 19 (1990) 275
Characterizing sequences, 22 (1991) 7
Charging, 19 (1990) 191; 20 (1990) 435
Checkpoint operation, 11 (1986) 383
China OSI, 16 (1988/89) 83
China PDN, 16 (1988/89) 83
China scientific and technical information system, 16 (1988/89) 83
China standardization, 16 (1988/89) 83
China state economics information system, 16 (1988/89) 83
Chinese postman problem, 22 (1991) 7
Chipcard, 13 (1987) 235
CIAO, 28 (1995/96) 1335
Circuit allocation, 16 (1988/89) 281
Circuit emulation, 25 (1993/94) S105
Circuit service, 24 (1992) 171
Circuit switched networks, 20 (1990) 115, 127, 143
Circuit-switched networks, 11 (1986) 203
Circuit-switching, 14 (1987) 159; 20 (1990) 277
City, 30 (1998) 1649
Class limitation, 20 (1990) 127
CLASS model, 20 (1990) 65
Class-4 transport protocol (TP-4), 11 (1986) 353
Classification, 16 (1988/89) 299; 28 (1995/96) 1685; 30 (1998) 646, 1841
Classroom interactions, 30 (1998) 718
CLG, 15 (1988) 73
Clickable maps, 28 (1995/96) 1291
Client, 28 (1995/96) 931
Client coordination, 29 (1996/98) 905
Client-organization encounter, 26 (1994/95) S119, S119
Client server, 26 (1994/95) S101; 27 (1994/95) 801; 28 (1995/96) 53, 1887

Client-server architecture, 29 (1996/98) 997
Client-server systems, 27 (1994/95) 1193
Climate, 28 (1995/96) 189
Climate observing, 28 (1995/96) 189
CLNP, 25 (1993/94) S25
CLNS, 25 (1993/94) S25
Clock synchronization, 30 (1998) 2359
Closed form solutions, 20 (1990) 231
Closed user group, 20 (1990) 75
CLP bit, 27 (1994/95) 703
CLT/WW, 28 (1995/96) 1015
Cluster, 29 (1996/98) 1019
Clustering, 12 (1986) 27; 27 (1994/95) 1075; 29 (1996/98) 1217
CNET, 12 (1986) 139
Cobrow, 30 (1998) 710
CO/CL interworking, 23 (1991/92) 47, 171
COCOM, 19 (1990) 177
Code division multiple access, 12 (1986) 39; 15 (1988) 341
Coded character set, 27 (1994/95) 429
Coherence, 28 (1995/96) 907; 29 (1996/98) 987
Collaboration, 26 (1994/95) S85; 28 (1995/96) 1105, 1501; 29 (1996/98) 905; 30 (1998) 215
Collaboration technologies, 27 (1994/95) 911
Collaborative conferencing, 19 (1990) 215
Collaborative design, 30 (1998) 1853
Collaborative filtering, 27 (1994/95) 739; 30 (1998) 359, 736
Collaborative systems, 28 (1995/96) 77
Collaborative virtual environments, 29 (1996/98) 1751; 30 (1998) 1677
Collaborative work, 28 (1995/96) 1971
Collaborative work support, 30 (1998) 1249
Collaboratory, 23 (1991/92) 91
Collective work (collective dimension of work), 14 (1987) 231
Collisions, 28 (1995/96) 773; 30 (1998) 1907
Collision avoidance switch, 17 (1989) 89, 101
Collision resolution, 15 (1988) 217
Collision resolution algorithms, 17 (1989) 201; 28 (1995/96) 283
Collision-free access, 15 (1988) 217
Collission protocols, 27 (1994/95) 1545
Collission resolution protocol, 12 (1986) 311
Color image histograms, 30 (1998) 2025
Color image quantization, 30 (1998) 2025
Colorimetry, 30 (1998) 399
Coloured books, 19 (1990) 191, 240
Commercial and academic networking, 19 (1990) 158
Common database, 17 (1989) 37
Common Lisp, 30 (1998) 697
Common management information services and protocols, 16 (1988/89) 167
Common transport network, 13 (1987) 257
Communicating finite state machines, 11 (1986) 367; 28 (1995/96) 1831
Communicating processes, 20 (1990) 209
Communicating word processor, 14 (1987) 283
Communication, 14 (1987) 61, 207, 237, 251, 279; 22 (1991) 35; 23 (1991/92) 417; 26 (1994/95) S85, S119
Communication analysis, 14 (1987) 199
Communication categories, 28 (1995/96) 491
Communication management, 17 (1989) 287
Communication model, 14 (1987) 231; 18 (1989/90) 47
Communication networks, 24 (1992) 277
Communication patterns, 28 (1995/96) 799
Communication processing, 17 (1989) 37
Communication processor (CP), 18 (1989/90) 115
Communication protocol validation, 11 (1986) 173
Communication protocols, 17 (1989) 111, 157; 18 (1989/90) 19, 31, 203, 221, 293, 335; 28 (1995/96) 563; 29 (1996/98) 15, 49, 81, 107; 30 (1998) 1111, 1277
Communication protocols and services, 14 (1987) 3
Communication software, 15 (1988) 245
Communication software design tools, 19 (1990) 181
Communication systems, 13 (1987) 235; 14 (1987) 187
Communications networks, 14 (1987) 167; 15 (1988) 341
Community, 30 (1998) 583, 597
Community-based browsing, 30 (1998) 736
Compac, 14 (1987) 159
Companion standard, 21 (1991) 357
Comparison between ISDN and dedicated data networks, 14 (1987) 331
Compartmented mode workstation, 29 (1996/98) 1799
Competition, 28 (1995/96) 1769
Competitive advantage, 28 (1995/96) 1481
Compilers, 23 (1991/92) 393
Compiling techniques, 22 (1991) 35
Complete timing information reassembly scheme, 22 (1991) 225
Complex analysis, 22 (1991) 277
Complex selection querying, 30 (1998) 656
Composition techniques, 28 (1995/96) 1629
Compression, 28 (1995/96) 1445
Computational fluid dynamics, 22 (1991) 111
Computational geometry, 29 (1996/98) 1661, 1737
Computational model, 27 (1994/95) 1305
Computational science, 27 (1994/95) 897
Computed hyperlink, 30 (1998) 663
Computer aided design, 30 (1998) 1915

Computer aided instruction, 30 (1998) 1915
Computer art, 30 (1998) 1951
Computer based learning, 27 (1994/95) 871
Computer based teaching, 27 (1994/95) 871
Computer based training and teaching, 27 (1994/95) 879; 30 (1998) 699
Computer communication, 17 (1989) 157; 21 (1991) 109; 23 (1991/92) 393
Computer communication networks, 11 (1986) 43, 277
Computer communication protocols, 23 (1991/92) 343
Computer conferencing, 14 (1987) 137
Computer graphics, 22 (1991) 111; 30 (1998) 43, 1915, 1923, 1961, 2003, 2047
Computer graphics education, 30 (1998) 1833, 2065
Computer network dependability, 27 (1994/95) 1447
Computer network management, 24 (1992) 33
Computer network protocols, 11 (1986) 173
Computer network topologies, 30 (1998) 805
Computer networking, 26 (1994/95) S193
Computer networks, 12 (1986) 27, 99, 291; 13 (1987) 333; 14 (1987) 137; 15 (1988) 67, 245; 16 (1988/89) 347; 17 (1989) 1; 18 (1989/90) 221, 243; 19 (1990) 79, 186; 22 (1991) 87, 143, 193; 24 (1992) 348, 349, 387; 27 (1994/95) 567; 28 (1995/96) 1723; 29 (1996/98) 315, 335
Computer painting, 29 (1996/98) 1571
Computer performance models, 24 (1992) 33
Computer supported cooperative work, 23 (1991/92) 91; 27 (1994/95) 789; 30 (1998) 489
Computer viruses, 17 (1989) 141; 27 (1994/95) 1447
Computer vision, 30 (1998) 1887
Computer-aided learning, 28 (1995/96) 1219; 30 (1998) 707
Computer-aided sofware engineering, 28 (1995/96) 1685
Computer-mediated communication, 14 (1987) 147
Computers in education, 28 (1995/96) 167
Computer-supported cooperative work, 27 (1994/95) 905
Computing services, 23 (1991/92) 19
Concentrator design, 23 (1991/92) 51
Concentrator location, 19 (1990) 1
Concept analysis, 28 (1995/96) 109
Conceptual model, 28 (1995/96) 689
Concurrency, 14 (1987) 61
Concurrent languages, 14 (1987) 25; 22 (1991) 61; 23 (1991/92) 325
Concurrent object-oriented programming, 30 (1998) 573
Concurrent systems, 24 (1992) 203
Conditional cycle time, 19 (1990) 25
Conference, 14 (1987) 167
Conference control, 30 (1998) 1457
Conferencing, 23 (1991/92) 87; 30 (1998) 407
Confidentiality, 17 (1989) 315; 22 (1991) 323
Conflit-free transmission, 15 (1988/89) 229
Conformance, 18 (1989/90) 65; 29 (1996/98) 49
Conformance test tools, 19 (1990) 181
Conformance testing, 14 (1987) 79; 15 (1988) 47, 285; 16 (1988/89) 243; 17 (1989) 77, 111, 367; 18 (1989/90) 19, 203; 19 (1990) 95; 23 (1991/92) 417; 24 (1992) 65; 28 (1995/96) 1669; 29 (1996/98) 3, 15, 49, 81, 107; 30 (1998) 1277
Congestion avoidance, 17 (1989) 1; 24 (1992) 185; 28 (1995/96) 1723
Congestion control, 11 (1986) 43; 17 (1989) 1; 19 (1990) 79; 20 (1990) 143; 24 (1992) 243; 27 (1994/95) 85, 1349, 1411; 28 (1995/96) 453, 811, 835, 1723; 29 (1996/98) 221, 325, 2091; 30 (1998) 1735, 1749, 1775, 1793, 1811, 2293, 2359
Congestion management, 23 (1991/92) 305
Connected status, 23 (1991/92) 43
Connection, 30 (1998) 1029
Connection admission control, 28 (1995/96) 1739; 29 (1996/98) 569, 595
Connection establishment, 30 (1998) 1135
Connection management, 29 (1996/98) 631
Connection oriented network service, 23 (1991/92) 125
Connection protocols, 12 (1986) 291
Connectionless, 23 (1991/92) 253
Connectionless networking, 25 (1993/94) S9
Connectionless server, 27 (1994/95) 117; 29 (1996/98) 797
Connectionless service function, 29 (1996/98) 797
Connection-mode, 17 (1989) 287
Connection-mode network service (CONS), 23 (1991/92) 171
Connection-oriented, 23 (1991/92) 253; 28 (1995/96) 401
Connectivity, 30 (1998) 469
CONS, 23 (1991/92) 125
CONS-CONS gate ways, 19 (1990) 240
Consensus, 13 (1987) 235
Consistency, 28 (1995/96) 981, 1027; 29 (1996/98) 1281
Consistency maintenance, 27 (1994/95) 1003
Constant-rate traffic, 30 (1998) 1135
Constructivist learning environments, 30 (1998) 699
Content modelling, 29 (1996/98) 1317
Content negotiation, 30 (1998) 141
Content-based access, 27 (1994/95) 953
Content-based interactivity, 29 (1996/98) 887

Contention-free access, 15 (1988) 217
Context-based search, 30 (1998) 95
Continuation-of-message, 24 (1992) 153
Continuity, 29 (1996/98) 1715
Continuity of service, 19 (1990) 234
Continuous bit-stream oriented (CBO), 20 (1990) 15
Control algorithms, 27 (1994/95) 1349
Control of discrete event systems, 29 (1996/98) 759
Control of internetwork traffic, 22 (1991) 363
Control parameter, 12 (1986) 277
Control token, 15 (1988) 31
Convergence, 28 (1995/96) 1769
Conversation, 26 (1994/95) S119
Conversion, 27 (1994/95) 429; 28 (1995/96) 1769
Conversion algorithm, 28 (1995/96) 1831
Converter state, 21 (1991) 93
Converter transparency, 16 (1988/89) 55
Converters, 16 (1988/89) 55
Converters at CERN, 16 (1988/89) 55
Convex hull, 29 (1996/98) 1737
Convolution, 29 (1996/98) 1705
COOL links, 30 (1998) 701
Co-operation, 28 (1995/96) 1385; 30 (1998) 195
Cooperative caching, 30 (1998) 2253
Cooperative service, 21 (1991) 275
Cooperative work, 27 (1994/95) 841
Coordinate convex interference, 22 (1991) 303
Coordinated test method, 15 (1988) 47
Coordination, 19 (1990) 173; 26 (1994/95) S85, S129; 28 (1995/96) 941
Coordination of national support activities, 19 (1990) 332
Copyright, 27 (1994/95) 1037; 28 (1995/96) 1123; 30 (1998) 591, 1201
CORBA, 28 (1995/96) 1269; 29 (1996/98) 865, 927
CoReview, 27 (1994/95) 849
Corporate networks, 18 (1989/90) 143
Corporate Web applications, 28 (1995/96) 1175
Corporation for open systems (COS), 14 (1987) 291
Correlated input, 20 (1990) 297
Correlated routing, 28 (1995/96) 325
Correlated traffic, 29 (1996/98) 1881; 30 (1998) 2337
COSINE, 16 (1988/89) 6, 21, 24, 108, 116, 119, 121, 150; 17 (1989) 239, 346, 352, 358; 19 (1990) 170, 261, 294; 23 (1991/92) 111, 115
COSINE community, 17 (1989) 348; 19 (1990) 332
COSINE Implementation Phase, 16 (1988/89) 108
COSINE information service, 19 (1990) 332
COSINE Requirements, 16 (1988/89) 44
COST, 13 (1987) 235; 21 (1991) 285
COST 214, 11 (1986) 311
Cost of secure protocols, 22 (1991) 363
Course materials, 30 (1998) 1981
Courts, 30 (1998) 559
Coverage, 30 (1998) 379
CPU, 11 (1986) 15
Crawlers, 30 (1998) 119
Crawling, 30 (1998) 161
CRC, 12 (1986) 175; 24 (1992) 109
Credo, 12 (1986) 139
CR&F, 28 (1995/96) 1685
Critique and analysis of Web applications, 29 (1996/98) 1479
CRMA, 21 (1991) 299
Cross connect, 29 (1996/98) 1901
Crossbar switch, 30 (1998) 2309
Cross-language information retrieval, 30 (1998) 1237
Crowd modeling, 30 (1998) 2015
Cryptography, 15 (1988) 67; 22 (1991) 323; 29 (1996/98) 1823; 30 (1998) 541
CS-1, 30 (1998) 1421
CSCW, 23 (1991/92) 91; 27 (1994/95) 739; 28 (1995/96) 481, 1037, 1105, 1157, 1385; 30 (1998) 747
CSCW and groupware, 29 (1996/98) 1751
CSG, 30 (1998) 1853
CSMA, 12 (1986) 39
CSMA/BTMA, 20 (1990) 277
CSMA/CD, 11 (1986) 99; 12 (1986) 277; 16 (1988/89) 347; 18 (1989/90) 1, 263; 21 (1991) 381, 399; 27 (1994/95) 1523
CSS, 30 (1998) 676
CTS programme, 17 (1989) 367
Cultural elements, 27 (1994/95) 429
Cultural heritage, 29 (1996/98) 1655; 30 (1998) 1185
Current and future activities, 21 (1991) 293
Currents, 28 (1995/96) 189
Cusp catastrophe, 12 (1986) 277
Customer premises equipment (CPE), 29 (1996/98) 595
Customizable, 29 (1996/98) 1217
Cut-and-paste, 28 (1995/96) 1075
Cut-off priorities, 20 (1990) 45
Cut-through switching, 21 (1991) 41
Cyber mall system, 30 (1998) 1865
Cyberspace, 30 (1998) 597
Cyberspace leveraging, 28 (1995/96) 137
Cyborg, Higher education, 30 (1998) 597
Cycle time, 19 (1990) 25
Cycles, 29 (1996/98) 1933
Cyclic input, 20 (1990) 409

3D data structures, 30 (1998) 2025
3D modelling, 29 (1996/98) 1695

3D quantification, 29 (1996/98) 1737
3D texture mapping, 29 (1996/98) 1625
3D tree drawing, 30 (1998) 2025
3D visualization, 28 (1995/96) 1539; 29 (1996/98) 1327; 30 (1998) 594, 2025
DANTE, 28 (1995/96) 1991
Data, 28 (1995/96) 161
Data analysis, 27 (1994/95) 801
Data communications, 14 (1987) 159, 339, 359; 15 (1988) 97; 16 (1988/89) 124, 347, 395; 18 (1989/90) 143
Data communication architecture (DCA), 18 (1989/90) 115
Data communication standards, 20 (1990) 3
Data communications network, 19 (1990) 186
Data integration, 30 (1998) 643
Data integrity, 12 (1986) 291; 22 (1991) 363
Data link control, 27 (1994/95) 677
Data mining, 29 (1996/98) 1205, 1249
Data network engineering, 20 (1990) 171
Data networks, 19 (1990) 286; 21 (1991) 261, 347; 22 (1991) 235
Data protection act, 23 (1991/92) 163
Data relay system, 21 (1991) 275
Data retrieval, 27 (1994/95) 801
Data services planning, 20 (1990) 57
Data transmission, 14 (1987) 155; 16 (1988/89) 135
Database, 12 (1986) 175; 15 (1988) 329; 17 (1989) 332; 19 (1990) 356; 26 (1994/95) S79, S101; 27 (1994/95) 1003, 1009; 28 (1995/96) 231, 613, 1149, 1523; 30 (1998) 567, 594
Database gateways, 30 (1998) 631
Database integration, 30 (1998) 607, 1637
Database management, 14 (1987) 155
Database protection, 30 (1998) 1521
Database query, 30 (1998) 643
Database servers, 19 (1990) 350
Database systems, 21 (1991) 81
Database technologies, 30 (1998) 1233
Databases, 15 (1988) 329; 17 (1989) 332; 19 (1990) 356; 26 (1994/95) S79; 27 (1994/95) 1009; 30 (1998) 594
Datagram routing, 12 (1986) 27
Datagram technology, 19 (1990) 186
Datagrams, 14 (1987) 383
Data-handling, 28 (1995/96) 161
Data-handling requirements, 22 (1991) 131
DCC-scheme, 17 (1989) 279
DCE, 27 (1994/95) 765
D-Channel, 19 (1990) 25
D-channel protocol, 14 (1987) 339
De facto standards, 16 (1988/89) 150
Decentralized recovery, 13 (1987) 313
Decision making, 14 (1987) 259
Decision support systems, 14 (1987) 221
Declarative modeling, 30 (1998) 1841, 1875
DECnet, 17 (1989) 371
DECnet Phase V, 19 (1990) 246
Decoupling, 28 (1995/96) 1769
Dedicated crawling, 29 (1996/98) 1269
Deflection routing, 24 (1992) 171
Deformable models, 29 (1996/98) 1675
Delaunay triangulation, 29 (1996/98) 1737
Delay, 12 (1986) 39; 18 (1989/90) 31; 21 (1991) 399; 23 (1991/92) 129; 27 (1994/95) 611; 29 (1996/98) 2021
Delay analysis, 27 (1994/95) 653; 29 (1996/98) 701
Delay bounds, 13 (1987) 3
Delay jitter, 29 (1996/98) 1881
Delay loss, 29 (1996/98) 1919
Delay loss period, 29 (1996/98) 1919
Delay measurement, 20 (1990) 3
Delay-sensitive, 27 (1994/95) 45
Delegation, 29 (1996/98) 1843
Demand and traffic forecasting for new telecom services, 20 (1990) 65
Demographic profile, 30 (1998) 1295
Demographics, 27 (1994/95) 809; 28 (1995/96) 1457
Demonstrations, 21 (1991) 175
Denial of service, 17 (1989) 315
Department computer, 14 (1987) 199
Depth first search, 20 (1990) 109
DES, 22 (1991) 323
Description, 16 (1988/89) 311; 28 (1995/96) 1585; 30 (1998) 1875
Descriptive names, 23 (1991/92) 211
Design, 15 (1988) 189; 16 (1988/89) 311; 29 (1996/98) 473, 501, 905; 30 (1998) 85, 1875
Design concepts, 27 (1994/95) 1263; 29 (1996/98) 413
Design methodologies, 27 (1994/95) 571, 1263
Design milestone, 29 (1996/98) 413
Design of secure protocols, 22 (1991) 363
Design principles and techniques, 29 (1996/98) 1225
Design techniques for Web applications, 28 (1995/96) 953, 1373
Design tools, 11 (1986) 183
DESIRE, 30 (1998) 1479
Destination stripping, 24 (1992) 15
Destructuring the news item, 14 (1987) 179
Deterministic QoS, 30 (1998) 2359
Deterministic time, 30 (1998) 925
Deutsches Forschungsnetz, 16 (1988/89) 40
Developing nations, 12 (1986) 225
Development toolkits for management (OSIMaDE) and security, 28 (1995/96) 499
Device-independent access, 29 (1996/98) 1075
DFN, 30 (1998) 1687
Dialog, 16 (1988/89) 24
Dialogue, 14 (1987) 147

Dialogue service, 16 (1988/89) 40
Dial-up, 17 (1989) 149
Dienst, 28 (1995/96) 247
Differencing, 28 (1995/96) 1335
Digital cash, 29 (1996/98) 939
Digital communications, 12 (1986) 225
Digital connectivity, 15 (1988) 27; 20 (1990) 81
Digital contracts, 30 (1998) 591
Digital data networks, 12 (1986) 175
Digital data transmission, 18 (1989/90) 143
Digital libraries, 26 (1994/95) S85; 27 (1994/95) 905, 1017; 28 (1995/96) 147; 30 (1998) 173, 612
Digital maps, 29 (1996/98) 1327
Digital networks, 14 (1987) 339
Digital PABX, 14 (1987) 359
Digital signatures, 17 (1989) 315; 27 (1994/95) 773
Digital switching system, 11 (1986) 269
Digital transmision system 2B1Q, 28 (1995/96) 701
Digital transmission, 14 (1987) 359; 21 (1991) 307
Digital TV technology, 30 (1998) 1543
Dimensioning, 28 (1995/96) 627
Directed handoff, 20 (1990) 447
Directed retry, 20 (1990) 447
Directional antenna, 11 (1986) 337
Direct-manipulating Web page editor, 29 (1996/98) 1507
Directories, 15 (1988) 269; 17 (1989) 127, 256; 18 (1989/90) 255; 19 (1990) 261; 23 (1991/92) 111
Directory access protocol, 16 (1988/89) 44
Directory information base, 16 (1988/89) 44
Directory services, 12 (1986) 225; 13 (1987) 235; 14 (1987) 339; 16 (1988/89) 44, 143, 161; 23 (1991/92) 163; 25 (1993/94) S3, S72; 26 (1994/95) S39; 28 (1995/96) 543, 709; 29 (1996/98) 137; 30 (1998) 1521
Directory system protocol, 16 (1988/89) 44
Directory systems, 15 (1988) 55; 27 (1994/95) 571
Directory update, 18 (1989/90) 255
Disability, 29 (1996/98) 1395, 1439; 30 (1998) 739
Discourse, 14 (1987) 147
Discrete-time queueing systems, 22 (1991) 277
Discrete-time queues, 28 (1995/96) 325
Discretionary access controls, 22 (1991) 323
Discretized learning algorithms, 22 (1991) 235
Displets, 29 (1996/98) 1115; 30 (1998) 225
Dissection, 28 (1995/96) 155
Dissimilar arrivals, 11 (1986) 111
Dissipative structures, 14 (1987) 271
DIST, 19 (1990) 319
Distance education, 27 (1994/95) 897; 28 (1995/96) 1887; 29 (1996/98) 1083; 30 (1998) 660, 1707
Distance learning, 27 (1994/95) 871; 28 (1995/96) 1207
Distinguishing sequences, 22 (1991) 7
Distributed, 30 (1998) 1475
Distributed access, 19 (1990) 350
Distributed access mechanism, 16 (1988/89) 229
Distributed action-oriented applications, 15 (1988) 97
Distributed algorithms; 16 (1988/89) 179, 367; 17 (1989) 127; 18 (1989/90) 379
Distributed animation, 29 (1996/98) 1635
Distributed applications, 15 (1988) 55; 16 (1988/89) 146; 23 (1991/92) 211; 28 (1995/96) 481, 1873; 29 (1996/98) 1083
Distributed artificial intelligence, 28 (1995/96) 689
Distributed call acceptance, 24 (1992) 171
Distributed computation, 22 (1991) 143; 28 (1995/96) 1037
Distributed computer networks, 21 (1991) 323
Distributed control, 12 (1986) 11
Distributed database, 27 (1994/95) 691
Distributed design, 30 (1998) 2261
Distributed electronic publishing, 30 (1998) 1249
Distributed file system, 27 (1994/95) 781
Distributed hyperlink database, 28 (1995/96) 981
Distributed indexing, 30 (1998) 1571
Distributed information systems, 27 (1994/95) 953
Distributed management, 16 (1988/89) 167; 28 (1995/96) 499; 29 (1996/98) 1843
Distributed medical applications, 28 (1995/96) 1971
Distributed memory, 22 (1991) 143
Distributed multimedia applications, 30 (1998) 777
Distributed multimedia systems, 28 (1995/96) 1187; 29 (1996/98) 745
Distributed networks, 15 (1988) 189
Distributed Object Computing, 28 (1995/96) 1149
Distributed objects, 29 (1996/98) 927; 30 (1998) 619
Distributed processing, 14 (1987) 373; 23 (1991/92) 195; 27 (1994/95) 1215
Distributed processing network, 11 (1986) 15
Distributed protocols, 12 (1986) 147
Distributed recovery, 15 (1988) 229
Distributed search, 30 (1998) 612
Distributed simulation, 20 (1990) 209
Distributed supercomputing, 21 (1991) 253

Distributed system security, 22 (1991) 323
Distributed systems, 13 (1987) 301; 14 (1987) 3; 15 (1988) 159, 189; 18 (1989/90) 185; 20 (1990) 209; 21 (1991) 17, 129; 23 (1991/92) 211; 25 (1993/94) S49; 26 (1994/95) S71; 27 (1994/95) 1287, 1305, 1429; 28 (1995/96) 1255; 29 (1996/98) 1281; 30 (1998) 573, 742
Distributed termination problem, 17 (1989) 175
Distributed test method, 15 (1988) 47
Distributed transaction processing, 17 (1989) 175; 21 (1991) 81
Distributed transparency, 27 (1994/95) 773
Distributed virtual environments, 30 (1998) 43, 407
Distributed visualization, 22 (1991) 111
Distribution, 15 (1988) 61; 28 (1995/96) 1857; 30 (1998) 205
Distribution lists, 14 (1987) 339; 15 (1988) 55; 25 (1993/94) S3
Document architecture, 21 (1991) 187
Document archiving, 27 (1994/95) 1017
Document clustering, 28 (1995/96) 1321; 30 (1998) 621
Document conversion, 21 (1991) 197
Document creation and review, 27 (1994/95) 849
Document format conversion, 21 (1991) 187
Document groups, 30 (1998) 327
Document interchange, 16 (1988/89) 138; 21 (1991) 197
Document interchange format, 21 (1991) 187
Document life histories, 30 (1998) 2149
Document oriented interfaces, 27 (1994/95) 841
Document representation, 21 (1991) 187
Document restructuring, 28 (1995/96) 1075; 29 (1996/98) 1075
Document structures, 16 (1988/89) 138; 21 (1991) 221
Document types, 17 (1989) 294
Documentation, 22 (1991) 87
Documents, 26 (1994/95) S15; 30 (1998) 578
DOM, 30 (1998) 251
Domain, 29 (1996/98) 987, 1367
Domain defined attributes, 17 (1989) 263
Domain name system, 29 (1996/98) 1799
Domain specific part, 17 (1989) 279
DQDB, 20 (1990) 217, 231, 261; 21 (1991) 299; 24 (1992) 109, 145, 153, 367; 27 (1994/95) 653, 1137; 29 (1996/98) 1969
DQDB MAN, 21 (1991) 239
Drift analysis, 20 (1990) 179
Driver information, 14 (1987) 167
DSSSL update, 30 (1998) 636
DTM, 24 (1992) 119
Dual bus, 27 (1994/95) 1457; 29 (1996/98) 221
Dual-ring topology, 24 (1992) 15
Dual-ring usage, 23 (1991/92) 51
Dublin core, 29 (1996/98) 1405; 30 (1998) 691, 1571
Duobinary signalling, 22 (1991) 287
Duplication, 29 (1996/98) 1157
Dynamic, 28 (1995/96) 1355
Dynamic addressing, 11 (1986) 133
Dynamic bandwidth allocation, 27 (1994/95) 1457
Dynamic bandwidth controller, 28 (1995/96) 635
Dynamic channel assignment, 20 (1990) 447
Dynamic channels allocation, 24 (1992) 131
Dynamic content, 29 (1996/98) 1405; 30 (1998) 457
Dynamic control, 12 (1986) 225; 29 (1996/98) 717
Dynamic flow models, 29 (1996/98) 1999
Dynamic hypertext, 30 (1998) 666
Dynamic hypertext configuration, 28 (1995/96) 1007
Dynamic layout, 30 (1998) 417
Dynamic neighbourhood, 30 (1998) 710
Dynamic priority, 28 (1995/96) 835
Dynamic programming, 30 (1998) 999
Dynamic queue threshold, 29 (1996/98) 2201
Dynamic routing, 20 (1990) 81, 155, 179; 28 (1995/96) 401
Dynamic search, 30 (1998) 317
Dynamic SQL, 28 (1995/96) 1139; 29 (1996/98) 1291
Dynamic topology, 15 (1988) 189
Dynamic virtual world, 30 (1998) 1897
Dynamic voice encoding, 29 (1996/98) 343

E.1654, 17 (1989) 47
E.166, 17 (1989) 47
''Early'' and ''Non-Early'' token release, 22 (1991) 287
EARN, 19 (1990) 166, 177, 191, 234
Earth science, 22 (1991) 103
Earth science data, 28 (1995/96) 221
East Europe, 19 (1990) 177; 25 (1993/94) S87
EBIT, 19 (1990) 299
EBIT solution, 23 (1991/92) 57
ECMA, 16 (1988/89) 143
Economic aspects, 14 (1987) 365
Economic challenge, 12 (1986) 235
Economic impact, 30 (1998) 1295
EDI, 30 (1998) 1579
EDIFACT, 27 (1994/95) 691
Editor, 27 (1994/95) 823
EdNA, 30 (1998) 583
Education, 15 (1988) 313; 26 (1994/95) S93; 27 (1994/95) 871; 28 (1995/96) 589; 30 (1998) 301, 679, 701, 745, 1201, 1649, 1717

Educational environment, 27 (1994/95) 905
Educational multimedia/hypermedia, 28 (1995/96) 1873
Educational objects, 30 (1998) 691
EFCI (explicit forward congestion indication), 29 (1996/98) 2091, 2139
Effective bandwidth, 20 (1990) 189
Effective bandwidth utilization, 28 (1995/96) 391
Efficient protocol implementation, 21 (1991) 315
Efiling, 30 (1998) 559
EHSNI, 19 (1990) 299
EIRPAC, 19 (1990) 191
El Nino, 28 (1995/96) 189
Electric commerce, 29 (1996/98) 1137
Electronic classrooms, 29 (1996/98) 1577
Electronic commerce, 28 (1995/96) 1197; 29 (1996/98) 1769; 30 (1998) 619, 1233, 1501, 1511, 1579
Electronic data interchange, 14 (1987) 339; 27 (1994/95) 691
Electronic directory, 21 (1991) 17
Electronic filing, 14 (1987) 279
Electronic funds transfer, 14 (1987) 389
Electronic highway, 26 (1994/95) S119
Electronic journals, 26 (1994/95) S63
Electronic letter service, 14 (1987) 339
Electronic mail, 13 (1987) 195; 14 (1987) 137, 147, 279, 283; 16 (1988/89) 8, 21, 48, 94; 17 (1989) 263; 19 (1990) 79, 234; 22 (1991) 347; 28 (1995/96) 799, 1979
Electronic management system, 28 (1995/96) 1523
Electronic messaging, 13 (1987) 195
Electronic news, 16 (1988/89) 94
Electronic newspaper, 29 (1996/98) 1457
Electronic payment system, 28 (1995/96) 1197
Electronic publishing, 26 (1994/95) S63; 27 (1994/95) 729; 30 (1998) 1233, 1263
Electronic purchasing, 27 (1994/95) 691
Electronic rights management, 30 (1998) 651
Electronic shopping, 30 (1998) 649
Electronic textbooks, 29 (1996/98) 1577; 30 (1998) 291
Electronic-commerce, 29 (1996/98) 939
E-mail, 17 (1989) 332; 25 (1993/94) S3, S72; 28 (1995/96) 1157
E-mail routing, 25 (1993/94) S3
Embedded methods, 28 (1995/96) 1243
Embedded modelling, 20 (1990) 231
Embedded scripts, 27 (1994/95) 1105
Emergency response, 23 (1991/92) 167
Encapsulation, 29 (1996/98) 137
Encoder/decoder, 14 (1987) 297
Encoding, 19 (1990) 319
Encryption, 11 (1986) 297; 13 (1987) 235; 17 (1989) 187, 315; 27 (1994/95) 765
Endoscopy image analysis, 28 (1995/96) 1971
End-to-end, 29 (1996/98) 617
End-to-end behavior, (1996/98) 831
End-to-end cell loss ratio, 29 (1996/98) 617
End-to-end delay, 29 (1996/98) 617; 30 (1998) 2359
End-to-end performance, 20 (1990) 7
End-user programming, 30 (1998) 119
Enforcement of network policies, 22 (1991) 363
Engineering graphics, 30 (1998) 1915
Engineering process, 28 (1995/96) 1685
Enhanced services, 14 (1988) 339
Enterprise, 28 (1995/96) 1015
Enterprise modelling, 30 (1998) 1363
Entity domain, 27 (1994/95) 1263
Entity-relationship modelling, 27 (1994/95) 571
Entropy, 14 (1987) 271
Entry cost, 14 (1987) 179
Environment, 13 (1987) 75; 28 (1995/96) 189, 1219
Environmental information exchange, 30 (1998) 1237
Environmental modelling, 28 (1995/96) 231
EOS, 28 (1995/96) 221
EPHOS, 19 (1990) 265
Epistemology, 14 (1987) 271
Epoch, 12 (1986) 311
Equilibrium states, 22 (1991) 213
ER (explicit rate), 29 (1996/98) 2139
Ergonomics, 14 (1987) 167, 187, 283
ERICA, 29 (1996/98) 2091
Erlang, 11 (1986) 287
ERMS, 30 (1998) 1589
Error correction, 30 (1998) 730
Error detection time, 23 (1991/92) 229
Error performance, 20 (1990) 15
Error recovery, 13 (1987) 313; 27 (1994/95) 591
Error recovery protocols, 28 (1995/96) 873
ESIS, 19 (1990) 362
ESPRIT, 14 (1987) 323; 16 (1988/89) 143
ESTELLE, 13 (1987) 75; 14 (1987) 3, 311; 18 (1989/90) 203, 335; 23 (1991/92) 343, 393; 30 (1998) 865
Esterel, 22 (1991) 35
Ethernet, 11 (1986) 99; 27 (1994/95) 1545
ET-LOTOS, 29 (1996/98) 107, 271
ETSI, 17 (1989) 244
Euclidean geometry, 29 (1996/98) 1645
Euclidean kinematics, 29 (1996/98) 1645
EUNET, 16 (1988/89) 94; 19 (1990) 191
EuroCAIRN, 28 (1995/96) 1991
EUROMATH, 16 (1988/89) 150
EuropaNET, 25 (1993/94) S25
Europe, 19 (1990) 265; 23 (1991/92) 11; 29 (1996/98) 1823
European, 19 (1990) 261

European Academic Research Network, 16 (1988/89) 40
European collaboration, 11 (1986) 311
European Commission, 16 (1988/89) 116
European communication policy, 16 (1988/89) 116
European community, 19 (1990) 339; 30 (1998) 1209
European cooperation, 21 (1991) 323
European coordination, 28 (1995/96) 1947
European high-speed networking, 21 (1991) 253
European information service, 17 (1989) 348
European Mathematical Trust (EMT), 16 (1988/89) 150
European network organisation, 16 (1988/89) 21
European network policy, 16 (1988/89) 108
European standardization, 17 (1989) 244
European VT project, 17 (1989) 352
Evaluation, 30 (1998) 587
Event structures, 30 (1998) 925
Event-based integration, 29 (1996/98) 1029
Event-based object interaction, 28 (1995/96) 85
Everyone interfaces, 29 (1996/98) 1439
Executable models, 24 (1992) 33
Executable specifications, 11 (1986) 183
Exit problem, 20 (1990) 315
Expandability, 27 (1994/95) 611
Expected progress, 11 (1986) 337
Expert systems, 20 (1990) 163; 30 (1998) 2283
Explicit, 16 (1988/89) 267
Exponential back-off, 13 (1987) 15
Expressions, 30 (1998) 679
Extended enterprise, 28 (1995/96) 1481
Extended local area networks, 12 (1986) 81; 13 (1987) 323
Extended transition tour, 27 (1994/95) 591
Extended URL, 29 (1996/98) 1467
Extensibility, 28 (1995/96) 1095
Extensible markup language, 29 (1996/98) 1115
Extension of SDL, 13 (1987) 97
External control, 14 (1987) 267
External data representation, 23 (1991/92) 393

Facial animation, 30 (1998) 1975
Fail-safe routing, 18 (1989/90) 379
Failure-tolerance, 28 (1995/96) 921
Fair exchange, 30 (1998) 1501
Fairness, 17 (1989) 1; 20 (1990) 231; 24 (1992) 153; 27 (1994/95) 1545; 28 (1995/96) 835, 855; 29 (1996/98) 2201
FAPL, 14 (1987) 61
FAQ, 28 (1995/96) 137, 257
Fast packet switch, 27 (1994/95) 611
Fast packet switching, 13 (1987) 21; 14 (1987) 339; 27 (1994/95) 1567
Fast reservation protocols, 24 (1992) 321
Fault coverage, 27 (1994/95) 591
Fault detection, 12 (1986) 175
Fault diagnosis, 27 (1994/95) 1499
Fault localization, 12 (1986) 175
Fault recovery, 12 (1986) 175; 15 (1988) 229
Fault reporting, 16 (1988/89) 101
Fault tolerance, 13 (1987) 323; 15 (1988) 229; 22 (1991) 51; 29 (1996/98) 1019, 1281
Fault-tolerant switch, 27 (1994/95) 29
FDDI, 19 (1990) 304; 21 (1991) 299; 23 (1991/92) 51; 24 (1992) 109; 27 (1994/95) 1479; 29 (1996/98) 249
FDDI protocol, 11 (1986) 121
FDDI-II, 16 (1988/89) 281; 21 (1991) 299
FDT, 16 (1988/89) 311; 28 (1995/96) 1659
FDT (Formal Description Technique), 29 (1996/98) 437; 30 (1998) 1735
Feature calculus, 30 (1998) 1389
Feature interaction, 30 (1998) 1389, 1421
Feature selection, 29 (1996/98) 1147
Federation, 30 (1998) 736
Feedback, 14 (1987) 147
Feedback control, 20 (1990) 179
Ferry clip, 17 (1989) 77
Ferry clip test approaches, 17 (1989) 77
Ferry concept, 15 (1988) 47
Ferry methods, 18 (1989/90) 203
Ferry principle, 17 (1989) 77
Ferry test method, 15 (1988) 47
Fiber optics, 14 (1987) 373; 16 (1988/89) 135
Fibre-optic links, 16 (1988/89) 129
Field procedures, 29 (1996/98) 1531
FIFO buffers, 27 (1994/95) 677
File access, 17 (1989) 294
File access code, 19 (1990) 319
File allocation, 16 (1988/89) 299
File caching, 28 (1995/96) 893
File management, 16 (1988/89) 299
File server, 11 (1986) 383; 17 (1989) 294
File storage, 19 (1990) 319
File transfer, 16 (1988/89) 21, 24, 40, 75; 17 (1989) 332; 22 (1991) 347
File transfer program, 11 (1986) 383
File transfer protocol, 14 (1987) 311
Filelist, 19 (1990) 319
Filtering, 27 (1994/95) 1075; 30 (1998) 1, 2261
Financial EDI, 30 (1998) 1579
Fingerprints, 29 (1996/98) 1157
Finite buffering, 18 (1989/90) 263
Finite buffers, 27 (1994/95) 627
Finite capacity, 20 (1990) 37
Finite capacity bridge, 24 (1992) 45
Finite element method, 29 (1996/98) 1675
Finite output queues, 30 (1998) 2337
Finite queueing system, 21 (1991) 1

Finite State Machine (FSM), 27 (1994/95) 591; 29 (1996/98) 315; 30 (1998) 1111
Finite-source model, 30 (1998) 821
Finite-state machines, 14 (1987) 61
Firewalls, 29 (1996/98) 1799; 30 (1998) 531
FIRST, 28 (1995/96) 1947
First-fit, 16 (1988/89) 229
First-packet-first-priority service strategy, 22 (1991) 225
Fixation, 27 (1994/95) 1037
Fixed boundary system, 16 (1988/89) 217
Fixed-routing, 20 (1990) 115
Flags, 19 (1990) 319
Flash-crowds, 29 (1996/98) 1053
Flexibility, 14 (1987) 245
Flight simulators, 29 (1996/98) 1327
Flow control, 17 (1989) 1; 19 (1990) 79; 22 (1991) 235; 23 (1991/92) 125; 27 (1994/95) 1411; 28 (1995/96) 855, 1723; 29 (1996/98) 325, 2103; 30 (1998) 1749, 2359
Flow description techniques (FDT), 23 (1991/92) 325, 343, 393
Fluid-flow analysis, 27 (1994/95) 1175
Fluid-flow approximation, 29 (1996/98) 373
FMMRA, 29 (1996/98) 2091
Focused overloads, 28 (1995/96) 619
Form, 27 (1994/95) 1027
Formal definition, 14 (1987) 61
Formal description techniques, 14 (1987) 3, 25, 61, 311; 16 (1988/89) 197; 18 (1989/90) 185, 221, 335; 22 (1991) 61; 24 (1992) 219; 29 (1996/98) 3, 15, 49, 81; 30 (1998) 1363
Formal language, 28 (1995/96) 1585
Formal methods, 28 (1995/96) 1685; 29 (1996/98) 271, 357; 30 (1998) 865, 1389
Formal modelling, 23 (1991/92) 363
Formal models, 17 (1989) 223
Formal protocol specification, 17 (1989) 111; 22 (1991) 51
Formal specification, 18 (1989/90) 335; 21 (1991) 53; 27 (1994/95) 571; 29 (1996/98) 501; 30 (1998) 1045
Formalisation, 14 (1987) 187; 28 (1995/96) 1685
Format, 14 (1987) 61
Format translation, 21 (1991) 211
Form-based input, 29 (1996/98) 1531
Forms, 28 (1995/96) 1355
Forms class terminal service, 14 (1987) 305
Formulae, 29 (1996/98) 1531; 30 (1998) 679
Fractals, 30 (1998) 733
Frame relay, 21 (1991) 239; 23 (1991/92) 119, 129, 305; 24 (1992) 243; 25 (1993/94) S17, 25 (1993/94) S105
Frame relaying, 14 (1987) 339
Framework, 30 (1998) 1501
4th Framework Programme, 28 (1995/96) 1991
Framing strategy, 27 (1994/95) 1457
France, 14 (1987) 167
Fraud, 13 (1987) 235
Freedom of movement in reading, 14 (1987) 179
Free-form deformation, 29 (1996/98) 1715
Frequency, 30 (1998) 205
Frequently asked questions, 28 (1995/96) 137
Front-end-processors, 19 (1990) 186
FTAM, 17 (1989) 294
Full screen, 23 (1991/92) 101
Full screen handling, 14 (1987) 305
Fulltext search, 27 (1994/95) 1017
Functional aspects, 14 (1987) 365
Functional requirements, 14 (1987) 123
Functional standards, 14 (1987) 291; 16 (1988/89) 21; 17 (1989) 294; 23 (1991/92) 11
Funding, 25 (1993/94) S87; 28 (1995/96) 1991
Funding local support, 19 (1990) 335
Funding structures for research networks, 23 (1991/92) 29
1:1 Future, 28 (1995/96) 1493
Future media, 14 (1987) 155
Future reservation, 30 (1998) 777
Futures, 26 (1994/95) S3
Fuzzy set approach, 16 (1988/89) 217

Gain, 29 (1996/98) 2053
Gateway reliability, 16 (1988/89) 55
Gatewaying, 17 (1989) 362
Gateways, 11 (1986) 43; 15 (1988) 269; 16 (1988/89) 34, 40, 55, 75, 101; 17 (1989) 332; 18 (1989/90) 79, 243; 19 (1990) 3, 191, 251; 21 (1991) 399; 28 (1995/96) 675; 29 (1996/98) 927
GDMO, 27 (1994/95) 1367
General system theory, 30 (1998) 1897
General topology networks, 30 (1998) 795
Generating function, 24 (1992) 421
Generic object navigator, 28 (1995/96) 1269
Genetic algorithm, 28 (1995/96) 231
Geographic distribution, 28 (1995/96) 37
Geographical browsers, 29 (1996/98) 1327
Geography, 29 (1996/98) 1327
Geometry of spheres, 26 (1996/98) 1645
German ISDN planning, 14 (1987) 331
Gestalt vision, 29 (1996/98) 887
G/G/1 queue, 20 (1990) 285
GIFT, 16 (1988/89) 55
Gigabit, 23 (1991/92) 129
Gigabit networking, 21 (1991) 315
Gigabit networks, 24 (1992) 119
GIS, 30 (1998) 1991
Glasnost and perestroica, 23 (1991/92) 363
Global and instant fairness, 26 (1996/98) 653
Global connectivity, 17 (1989) 300
Global engineering networking, 30 (1998) 1249

Global illumination, 30 (1998) 1961
Global office, 14 (1987) 251
Global state equations, 20 (1990) 45
Global time reference, 30 (1998) 2359
Go-back-*N*, 23 (1991/92) 229; 28 (1995/96) 873
Go-Back-N protocol, 27 (1994/95) 677
Google, 30 (1998) 107
GOSIP, 19 (1990) 265
Governance, 23 (1991/92) 33
GPS (glonal positioning system) time, 30 (1998) 2359
Grace, 23 (1991/92) 87
Grade of service, 11 (1986) 287; 12 (1986) 139; 15 (1988) 87; 20 (1990) 401
Grade-of-service routing, 12 (1986) 89
Grants, 26 (1994/95) S193
Graph diameter, 12 (1986) 139
Graph drawing, 30 (1998) 638
Graph layout, 28 (1995/96) 85
Graph models, 15 (1988) 229
Graph semantics, 28 (1995/96) 1105
Graphic design, 28 (1995/96) 179
Graphical map, 28 (1995/96) 85
Graphical support for software development, 22 (1991) 61
Graphical user interfaces, 27 (1994/95) 751
Graphics, 13 (1987) 91; 26 (1994/95) S15
Graph-theoretical algorithm, 13 (1987) 269
Green Paper, 16 (1988/89) 64
Grif Symposia, 28 (1995/96) 1095
Group 4 facsimile, 14 (1987) 155
Group annotations, 27 (1994/95) 739, 911
Group arrivals, 21 (1991) 399
Group collaboration, 27 (1994/95) 849
Group communication, 14 (1987) 339; 15 (1988) 55; 22 (1991) 165; 23 (1991/92) 87; 26 (1994/95) S129
Group communication service, 26 (1994/95) S129
Group consistency, 30 (1998) 327
Group messaging, 29 (1996/98) 1083
Group polling, 13 (1987) 291
Group processes, 23 (1991/92) 91
Group profiles, 30 (1998) 654
Groups, 28 (1995/96) 1063
Groupware, 23 (1991/92) 91; 28 (1995/96) 69, 1037; 30 (1998) 499
GSM, 30 (1998) 1045
Guaranteed bandwidth, 24 (1992) 171
Guaranteed throughput, 24 (1992) 15
Guided tours, 28 (1995/96) 1233; 30 (1998) 131

H.261, 26 (1994/95) S139
Half-gateway, 16 (1988/89) 405
Hardware cost, 29 (1996/98) 717
Hardware implementations, 27 (1994/95) 677
Harvest, 28 (1995/96) 1415
HDLC, 22 (1991) 35
Head of line blocking, 30 (1998) 1083
Header errors, 24 (1992) 335
HEANET, 19 (1990) 191
Help desk, 23 (1991/92) 87; 29 (1996/98) 1777
HEPnet, 17 (1989) 371
Heterogeneous data, 30 (1998) 359
Heterogeneous databases, 30 (1998) 1185
Heterogeneous distributed systems, 19 (1990) 105
Heterogeneous environments, 23 (1991/92) 393
Heterogeneous networks, 12 (1986) 139; 22 (1991) 213
Heterogeneous systems, 23 (1991/92) 19
Heterogenous traffic, 24 (1992) 421
Heuristic algorithm, 17 (1989) 29
Heuristics, 27 (1994/95) 101
HICOM, 13 (1987) 91
Hidden costs, 14 (1987) 365
Hidden terminal, 12 (1986) 1
Hierarchical, 30 (1998) 215
Hierarchical data structure, 30 (1998) 1961
Hierarchical network, 17 (1989) 29
Hierarchical network management, 28 (1995/96) 441
Hierarchical radiosity, 30 (1998) 1961
Hierarchical routing, 15 (1988) 329
Hierarchization, 27 (1994/95) 1075
Hierarchy, 28 (1995/96) 1345; 30 (1998) 195
High availability, 29 (1996/98) 1019
High dimensionality, 29 (1996/98) 1147
High layer capabilities, 14 (1987) 339
High level gateways, 13 (1987) 195
High level stochastic Petri nets, 20 (1990) 271
High performance, 19 (1990) 224
High performance computing, 27 (1994/95) 897
High performance computing communications, 23 (1991/92) 37
High performance networks, 30 (1998) 1627
High quality teleteaching, 30 (1998) 1707
High resolution images, 30 (1998) 399
High school, 30 (1998) 716
High speed, 21 (1991) 333
High speed academic networks, 30 (1998) 1663
High speed application projects, 30 (1998) 1663
High speed connection, 30 (1998) 723
High speed data network, 23 (1991/92) 125
High speed LANs/MANs, 27 (1994/95) 1457
High speed networking, 17 (1989) 354
High speed networks, 17 (1989) 324; 21 (1991) 307; 25 (1993/94) S99; 27 (1994/95) 1411
High speed protocols, 21 (1991) 293
High speed services, 25 (1993/94) S131
High-capacity networks, 28 (1995/96) 1991
Higher geometry, 29 (1996/98) 1645

High-speed backbone, 28 (1995/96) 575
High-speed communications, 23 (1991/92) 119
High-speed local area networks, 21 (1991) 381
High-speed networking, 16 (1988/89) 89, 135
High-speed networks, 16 (1988/89) 124, 129; 22 (1991) 83, 131; 24 (1992) 109; 367; 26 (1994/95) S179; 28 (1995/96) 453, 1873, 1953; 29 (1996/98) 735
High-speed protocols, 23 (1991/92) 143
Historical records, 29 (1996/98) 1317
Holiday peak periods, 14 (1987) 167
Home banking, 28 (1995/96) 199
Home pages, 29 (1996/98) 1193
Hop-by-hop, 28 (1995/96) 811
HORB, 30 (1998) 747
Host computers, 19 (1990) 186
Host identifier, 15 (1988) 159
Host level, 16 (1988/89) 405
Hot potato routing, 24 (1992) 171
HoTMetaL Pro, 27 (1994/95) 823
Hot-spot, 27 (1994/95) 627
Household telephone, 14 (1987) 207
HPCC, 23 (1991/92) 37
HPI, 30 (1998) 634
HTCP, 30 (1998) 2093
HTML, 27 (1994/95) 831, 841; 28 (1995/96) 3, 53, 963, 1095, 1335, 1857; 29 (1996/98) 1129, 1137, 1367, 1395; 30 (1998) 239, 389, 676, 730
HTML document model, 28 (1995/96) 1075
HTML documents, 28 (1995/96) 147
HTML extensions, 27 (1994/95) 1009; 28 (1995/96) 1105, 1291; 29 (1996/98) 1115
HTML style, 28 (1995/96) 1283
HTTP, 27 (1994/95) 765; 28 (1995/96) 25, 53, 907, 931, 1063; 29 (1996/98) 1019, 1357; 30 (1998) 2093
HTTP performance, 30 (1998) 457
Human factors, 14 (1987) 187, 279; 15 (1988) 73
Human interface, 29 (1996/98) 1439
Human performance improvement, 30 (1998) 634
Human resources, 26 (1994/95) S85
Human-centered, 14 (1987) 237
Human-computer interaction, 15 (1988) 73; 29 (1996/98) 1685; 30 (1998) 149, 489, 666, 699
Hush, 27 (1994/95) 1105
Hybrid fiber–coax systems, 30 (1998) 821
Hybrid protocol, 11 (1986) 219; 13 (1987) 275
Hybrid random access and reservation protocol, 28 (1995/96) 773
Hybrid switching, 16 (1988/89) 281
Hyper link documents, 28 (1995/96) 1187
Hyper-exponentially distributed bursts, 27 (1994/95) 1175
Hyper-G, 26 (1994/95) S63; 27 (1994/95) 919
Hypergraphs, 30 (1998) 805
Hyperlink databases, 27 (1994/95) 729
Hyperlinks, 29 (1996/98) 1129; 30 (1998) 701
Hypermedia, 25 (1993/94) S49; 27 (1994/95) 919, 1055; 28 (1995/96) 1105, 1539; 30 (1998) 131, 587
Hypertext, 27 (1994/95) 1055; 28 (1995/96) 167, 1105; 29 (1996/98) 1129, 1205; 30 (1998) 616, 704
Hypertext authoring, 28 (1995/96) 77
Hypertext navigation, 27 (1994/95) 1065
Hypertext visualization, 28 (1995/96) 85
Hysteresis, 20 (1990) 45

I2-DSI, 30 (1998) 2141
IBC, 19 (1990) 299
IBCN, 23 (1991/92) 143
IBM, 19 (1990) 275
IBM's aglets, 29 (1996/98) 865
Icons, 28 (1995/96) 179
ICP, 30 (1998) 2093, 2155
Identifiers, 30 (1998) 337
Identity, 30 (1998) 309, 583
IDL, 27 (1994/95) 801
IEEE 802, 13 (1987) 323; 16 (1988/89) 167; 19 (1990) 95
IEEE 802.6, 24 (1992) 145, 153, 367
IES, 17 (1989) 358
IFIP, 12 (1986) 225
IFIP TC-6, 12 (1986) 225
ILP, 29 (1996/98) 735
Image, 28 (1995/96) 1123
Image analysis, 29 (1996/98) 1655
Image coding, 30 (1998) 2059
Image processing, 29 (1996/98) 1705; 30 (1998) 2047
Image quality, 26 (1994/95) S85
Image recoding, 30 (1998) 2113
Image search, 29 (1996/98) 1181
Image synthesis, 30 (1998) 2015
Images, 26 (1994/95) S101
Imbedded Markov chain, 19 (1990) 11
Immersion, 29 (1996/98) 1685
Implementation, 14 (1987) 283, 311, 365
Implet, 14 (1987) 383
Importance sampling, 20 (1990) 315
Imprecision assessment, 20 (1990) 65
IN, 30 (1998) 1421
IN management, 28 (1995/96) 689
Incarnation number, 15 (1988) 159
Incident coordination, 28 (1995/96) 1947
Incident Response Team, 28 (1995/96) 1947
Incompatible protocols, 28 (1995/96) 1831
Incremental and interactive learning, 29 (1996/98) 1249

Index, 28 (1995/96) 1345; 29 (1996/98) 1129
Index DSAs, 28 (1995/96) 551
Index of dispersion of counts (IDC), 20 (1990) 15
Index servers, 28 (1995/96) 551
Indexing, 27 (1994/95) 1003; 28 (1995/96) 109, 993, 1175, 1939; 30 (1998) 141, 359, 443
Indirect conversion, 21 (1991) 93
Individual habits, 14 (1987) 207
Individualization, 30 (1998) 663
Industrial, 17 (1989) 344
Industrial cooperation, 21 (1991) 293
Industrial design, 30 (1998) 1209
Industrial plant automation, 21 (1991) 357
Industrial structures, 14 (1987) 245
Industrial traffic, 13 (1987) 275
Inference, 14 (1987) 231
INFN, 17 (1989) 252
INFNet, 17 (1989) 252, 371
Information, 30 (1998) 1475
Information access, 28 (1995/96) 1373
Information architecture, 26 (1994/95) S75
Information brokering, 30 (1998) 1491
Information clustering, 28 (1995/96) 147
Information delivery systems, 12 (1986) 107
Information engineering, 30 (1998) 1209
Information extraction, 29 (1996/98) 1217
Information filtering, 28 (1995/96) 1175; 29 (1996/98) 1193
Information flow analysis, 14 (1987) 237
Information freshness, 30 (1998) 53
Information gathering, 28 (1995/96) 119
Information infrastructure, 28 (1995/96) 1769
Information management, 28 (1995/96) 1175
Information merging, 28 (1995/96) 1063
Information mining, 28 (1995/96) 1457
Information model, 23 (1991/92) 87; 27 (1994/95) 751
Information on demand, 28 (1995/96) 563
Information providers, 11 (1986) 269; 23 (1991/92) 115
Information retrieval, 27 (1994/95) 1017; 28 (1995/96) 137, 147, 563, 1321; 29 (1996/98) 1193, 1205, 1225, 1249, 1257, 1269, 1317; 30 (1998) 1, 65, 95, 107, 359, 654
Information retrieval and modeling, 30 (1998) 149, 389
Information re-use, 30 (1998) 624
Information security, 29 (1996/98) 1823
Information server, 26 (1994/95) S93
Information service management, 19 (1990) 162
Information service organisation, 19 (1990) 162
Information services, 13 (1987) 235; 20 (1990) 101; 26 (1994/95) S71; 28 (1995/96) 53, 161
Information sharing, 23 (1991/92) 87; 29 (1996/98) 1103; 30 (1998) 747
Information society, 28 (1995/96) 1991
Information structuring, 28 (1995/96) 1243
Information systems; 14 (1987) 123, 187; 25 (1993/94) S49; 27 (1994/95) 919; 28 (1995/96) 1187
Information theory, 14 (1987) 271
Information transaction model, 30 (1998) 1237
Information visualization, 27 (1994/95) 1075; 29 (1996/98) 1181, 1257; 30 (1998) 638
Information weeding, 26 (1994/95) S75
Informational process, 14 (1987) 237
Infrared link, 15 (1988) 203
Inheritance, 23 (1991/92) 211
In-line discussion, 30 (1998) 718
Innovation diffusion, 30 (1998) 1579
Innovative applications, 29 (1996/98) 917
Input buffered packet switch, 30 (1998) 1083
Input queueing ATM switches, 30 (1998) 1341
Input/output finite state machine, 28 (1995/96) 1669
INRIA, 28 (1995/96) 13
INS, 11 (1986) 269; 17 (1989) 37
Insensitivity, 22 (1991) 303
Installation, 30 (1998) 1951
Institute of electrical and electronic engineers, 19 (1990) 95
Instructor/learner relationship, 28 (1995/96) 1207
Integrated information network, 14 (1987) 237
Integrated networks, 24 (1992) 421
Integrated ring, 24 (1992) 131
Integrated routing, 23 (1991/92) 185
Integrated services, 15 (1988) 303; 18 (1989/90) 97; 29 (1996/98) 595; 30 (1998) 1467
Integrated services and network planning, 20 (1990) 89
Integrated services digital network (ISDN), 18 (1989/90) 65; 23 (1991/92) 241
Integrated services digital networks (ISDN, ISDN-B, ATM), 17 (1989) 324
Integrated services network, 20 (1990) 343
Integrated voice and data, 12 (1986) 225
Integrated voice and data networks, 11 (1986) 89
Integrated voice/data, 11 (1986) 99
Integrated voice/data network, 16 (1988/89) 217
Integration, 23 (1991/92) 79; 27 (1994/95) 1105; 28 (1995/96) 481
Integration of heterogeneous information sources, 29 (1996/98) 1225
Integration of real-time channels, 29 (1996/98) 917
Integrity, 17 (1989) 141, 315; 22 (1991) 323; 28 (1995/96) 981
Intellectual property, 27 (1994/95) 1037, 1047
Intellectual property rights, 30 (1998) 591

Intelligent agents, 28 (1995/96) 137; 29 (1996/98) 1249
Intelligent Network service, 30 (1998) 1389
Intelligent networks, 20 (1990) 101; 24 (1992) 1; 28 (1995/96) 613, 619, 627, 689
Interaction filtering, 30 (1998) 1363
Interactions, 14 (1987) 179, 231; 29 (1996/98) 413; 30 (1998) 1717, 1951
Interactive access, 23 (1991/92) 101
Interactive information retrieval, 30 (1998) 1491
Interactive multimedia, 30 (1998) 2065
Interactive sessions, 27 (1994/95) 927
Interactive simulations, 28 (1995/96) 1307
Interactive television, 28 (1995/96) 1559
Interactive video, 28 (1995/96) 1559; 29 (1996/98) 887
Interactivity, 22 (1991) 103; 23 (1991/92) 157
Interconnected networks, 11 (1986) 43; 24 (1992) 45
Interconnection, 15 (1988) 269; 17 (1989) 346; 23 (1991/92) 171; 29 (1996/98) 2039
Interconnection approaches, 18 (1989/90) 79
Interconnection ground subnetwork, 21 (1991) 275
Interconnection level, 16 (1988/89) 405
Interconnection networks, 20 (1990) 277; 24 (1992) 185; 28 (1995/96) 1809
Interconnection of error-control mechanisms, 18 (1989/90) 79
Interconnection problems, 18 (1989/90) 79
Interconnection topology, 16 (1988/89) 405
Intercontinental links, 19 (1990) 286; 21 (1991) 261
Inter-domain routing, 22 (1991) 179
Interest expression, 30 (1998) 669
Interface, 16 (1988/89) 187; 28 (1995/96) 1345; 30 (1998) 658
Interface generator, 30 (1998) 656
Interface translation, 12 (1986) 159
Interference, 12 (1986) 1
Interference delay, 20 (1990) 425
Interim directories, 17 (1989) 256
Interim protocols, 16 (1988/89) 121
Intermediaries, 30 (1998) 509
Intermediation, 28 (1995/96) 1197
Internal coherence, 14 (1987) 179
Internal control, 14 (1987) 267
Internal protocols, 14 (1987) 383
Internal speedup, 30 (1998) 2337
International, 16 (1988/89) 124
International networking, 19 (1990) 186
International special interest groups, 19 (1990) 332
International standards, 16 (1988/89) 21, 40
International user groups, 19 (1990) 328, 335
International X.25, 19 (1990) 166
International X.25 backbone service, 19 (1990) 294
Internationalisation, 27 (1994/95) 429; 30 (1998) 601
Internationalization/localization, 30 (1998) 271
Internet, 13 (1987) 257; 17 (1989) 141, 337; 19 (1990) 270, 286; 21 (1991) 261; 22 (1991) 347; 25 (1993/94) S9; 26 (1994/95) S3, S75, S85, S101; 27 (1994/95) 1097; 28 (1995/96) 119, 221, 257, 1197, 1887; 29 (1996/98) 1205, 1763, 1769; 30 (1998) 601, 733, 1097, 1579, 1607, 1617, 1649, 1981, 2059, 2123
Internet application gateway, 29 (1996/98) 1799
Internet banking, 28 (1995/96) 1891
Internet congestion, 29 (1996/98) 1053
Internet economics, 29 (1996/98) 1053
Internet engineering task force, 23 (1991/92) 153
Internet infrastructure, 28 (1995/96) 981
Internet protocol, 11 (1986) 277; 17 (1989) 300
Internet registry function, 23 (1991/92) 43
Internet resource guide, 19 (1990) 335
Internet search, 29 (1996/98) 1147, 1305
Internet technologies, 29 (1996/98) 1417
Internet telephony, 30 (1998) 1457
Internet tools, 27 (1994/95) 729
Internet training, 30 (1998) 1657
Internet video, 29 (1996/98) 1833
Internet2, 30 (1998) 1669, 2141
Internet-based collaboration, 29 (1996/98) 1103
Internet-based learning, 30 (1998) 634
Internet-in-the-Sky, 29 (1996/98) 1763
Inter-network layer, 16 (1988/89) 405
Internetworking, 11 (1986) 219; 14 (1987) 383; 15 (1988) 269, 369; 22 (1991) 179; 27 (1994/95) 479; 29 (1996/98) 137
Internetworking (LAN/MAN), 29 (1996/98) 797
Internetworks, 28 (1995/96) 855
Interoperability, 23 (1991/92) 195; 28 (1995/96) 1269, 1961; 30 (1998) 1589
Interoperability testing, 17 (1989) 367
Interoperable, 18 (1989/90) 65
Interpersonal messaging service, 14 (1987) 339
Interprocess communication, 15 (1988) 159; 29 (1996/98) 1291
Interprocess message communication, 11 (1986) 353
Interval logic, 24 (1992) 203
Interworking, 13 (1987) 257; 16 (1988/89) 395; 21 (1991) 165; 23 (1991/92) 177, 253
Intranet, 30 (1998) 479
Intranet development methodology, 29 (1996/98) 1167
Intranet development support tool, 29 (1996/98) 1167
Intranet performance, 30 (1998) 195

Intuitive user interfaces, 28 (1995/96) 1559
Invariance condition, 22 (1991) 303
I/O loading, 11 (1986) 287
IP, 19 (1990) 173, 234; 21 (1991) 333; 24 (1992) 243; 25 (1993/94) S9; 28 (1995/96) 575, 1929, 1953; 30 (1998) 1607, 2327
IP aliasing, 29 (1996/98) 1019
IP integrated services, 30 (1998) 1447
IP multicast, 28 (1995/96) 429
IP over ATM, 30 (1998) 2327
IP routers, 19 (1990) 43; 23 (1991/92) 129
IPng, 28 (1995/96) 1915
IPR, 30 (1998) 1589
Ip-register, 23 (1991/92) 43
IPv6, 30 (1998) 1617
ISDN, 11 (1986) 269, 311; 12 (1986) 225; 13 (1987) 21, 269; 14 (1987) 155, 323, 339, 359; 15 (1988) 27, 87, 303; 16 (1988/89) 299, 395; 17 (1989) 149; 18 (1989/90) 47, 55; 19 (1990) 25, 43, 95; 20 (1990) 75, 127; 24 (1992) 1, 277, 279; 26 (1994/95) S29; 28 (1995/96) 411
ISDN data services, 20 (1990) 57
ISDN interworking, 20 (1990) 57
ISDN network layer protocol, 30 (1998) 1277
ISDN subscribers, 28 (1995/96) 701
ISDN user-network interface, 15 (1988) 359
ISDS, 20 (1990) 75
I-series recommendations, 14 (1987) 339
IS-IS, 23 (1991/92) 185
ISO 10021, 16 (1988/89) 153
ISO, 12 (1986) 225, 231; 16 (1988/89) 167, 395; 17 (1989) 279; 18 (1989/90) 65; 19 (1990) 275; 23 (1991/92) 11, 177
ISO 8571, 17 (1989) 294
ISO 8802 technologies, 16 (1988/89) 34
ISO conformance testing standard, 22 (1991) 7
Isochronous, 21 (1991) 299
Isochronous communications, 13 (1987) 291; 24 (1992) 131; 27 (1994/95) 1479
ISODE, 17 (1989) 362
ISO/IEC 9594, 17 (1989) 305
Isolation, 29 (1996/98) 1809
Isomorphic networks, 20 (1990) 377
ISO/OSI reference model, 21 (1991) 357
Isoprobability curve, 29 (1996/98) 569
IT adoption, 30 (1998) 1579
IT implementation, 30 (1998) 1579
ITU, 28 (1995/96) 1685; 30 (1998) 1327
IXI, 19 (1990) 294, 299

JANET, 19 (1990) 191, 286; 21 (1991) 261, 347
Java, 28 (1995/96) 941, 1037, 1149; 29 (1996/98) 865, 965, 1083, 1385, 1531, 1577, 1611, 1635, 1769; 30 (1998) 119, 271, 301, 399, 479, 573, 626, 1833, 2131
Java programming, 29 (1996/98) 1497
Javabean, 30 (1998) 594
Jitter, 30 (1998) 2359
JNT, 19 (1990) 240
Job autonomy, 14 (1987) 267
Job task, 14 (1987) 267
Joins, 28 (1995/96) 1139
Joint editing, 19 (1990) 215
Jordan sorting, 29 (1996/98) 1661
J.UCS, 26 (1994/95) S63

K-12 education, 28 (1995/96) 155
64 kb/s, 20 (1990) 75
Kerberos, 19 (1990) 201
Kernel, 15 (1988) 159
Kery recovery, 29 (1996/98) 1823
Key distribution, 17 (1989) 187
Key distribution protocols, 11 (1986) 297
Key escrow, 29 (1996/98) 1823
Key management, 14 (1987) 389; 19 (1990) 201; 22 (1991) 323; 28 (1995/96) 709
Keywords, 17 (1989) 263
Knowledge communication, 14 (1987) 221
Knowledge communication uncertainty, 14 (1987) 221
Knowledge discovery, 29 (1996/98) 1205
Knowledge management, 30 (1998) 1249
Knowledge-based computer aided architectural design, 29 (1996/98) 1611
Knowledge-based systems, 14 (1987) 221

La Trobe University, 30 (1998) 716
LAN, 11 (1986) 99; 15 (1988) 31, 159, 203, 313, 369; 17 (1989) 279; 19 (1990) 43; 24 (1992) 109; 25 (1993/94) S135; 26 (1994/95) S29; 27 (1994/95) 1137, 1479
LAN costs, 14 (1987) 365
LAN emulation, 25 (1993/94) S105; 28 (1995/96) 1929
LAN interconnection, 16 (1988/89) 75, 129; 19 (1990) 43; 25 (1993/94) S17; 29 (1996/98) 137
LAN internetworking with TCP/IP, 23 (1991/92) 57
LAN (local area network), 29 (1996/98) 335
LAN management, 23 (1991/92) 79
LAN protocols, 24 (1992) 349
Language, 14 (1987) 61
Language-based environments, 22 (1991) 61
Languages, 23 (1991/92) 393
Languages, 28 (1995/96) 1603
LAN/MAN, 29 (1996/98) 1933
LANs, 16 (1988/89) 395; 21 (1991) 285
LAN/WAN interworking, 16 (1988/89) 34
Laparoscopic surgery, 29 (1996/98) 1675
LAPB, 21 (1991) 307; 24 (1992) 243
LAPD, 18 (1989/90) 293; 24 (1992) 243
Large deviations, 20 (1990) 315
Large networks, 15 (1988) 329

Large solution set, 30 (1998) 1841
Large Web application, 29 (1996/98) 1507
Large-scale simulations, 21 (1991) 253
Laryngoscopy, 30 (1998) 2037
Laser printing, 14 (1987) 155
Late binding, 16 (1988/89) 55
Latency, 28 (1995/96) 25, 1445; 29 (1996/98) 1457
Lattice vector quantization, 29 (1996/98) 1833
Layer management, 16 (1988/89) 167
Layout styles, 21 (1991) 221
Leaky bucket, 20 (1990) 415; 24 (1992) 81, 311; 27 (1994/95) 85; 29 (1996/98) 781; 30 (1998) 963
Learning, 30 (1998) 301, 672
Learning automata, 30 (1998) 963
Leased lines, 18 (1989/90) 143
Legacy, 28 (1995/96) 931
Legacy code, 29 (1996/98) 1497
Legal aspects, 13 (1987) 235
Legal process, 30 (1998) 559
LEO, 29 (1996/98) 1763
Level of detail, 30 (1998) 1941
Libraries, 19 (1990) 162, 339; 26 (1994/95) S15; 28 (1995/96) 1175
Library cataloging, 27 (1994/95) 985
Lightpath, 30 (1998) 2349
Lightwave networks, 20 (1990) 223; 28 (1995/96) 743; 30 (1998) 805
Linda, 28 (1995/96) 941
Line geometry, 29 (1996/98) 1645
Linear time, 24 (1992) 203
Linguistic vectors, 20 (1990) 65
Link, 30 (1998) 658
Link analysis, 30 (1998) 65
Link capacity, 15 (1988) 189
Link deficit algorithm, 27 (1994/95) 567
Link level protocol, 13 (1987) 313; 14 (1987) 383
Link management, 30 (1998) 1185
Link services, 30 (1998) 616
Link significance, 17 (1989) 29
Linking, 28 (1995/96) 1027
Links, 30 (1998) 616, 704
Link-state update, 29 (1996/98) 237
Link-state update generation, 29 (1996/98) 237
Lip synchronization, 29 (1996/98) 107; 30 (1998) 1975
LISTEARN, 19 (1990) 319
(L,M,T) mechanism, 27 (1994/95) 85
Load balancing, 18 (1989/90) 1; 28 (1995/96) 921; 29 (1996/98) 1019
Load sharing, 30 (1998) 2261
Local area network, 11 (1986) 1, 89, 111, 121, 133, 383; 12 (1986) 99, 107; 13 (1987) 3, 275, 313, 333; 14 (1987) 199, 365, 373, 383; 15 (1988) 31, 159, 203, 313, 369; 17 (1989) 15, 89, 101, 187, 193; 18 (1989/90) 1; 19 (1990) 95; 20 (1990) 309; 21 (1991) 109; 22 (1991) 265; 23 (1991/92) 19, 253; 27 (1994/95) 1545; 29 (1996/98) 1901
Local computer networks, 11 (1986) 29
Local electronic community space, 30 (1998) 1223
Local exchange companies, 15 (1988) 27
Local interprocess communication, 21 (1991) 81
Local networks, 15 (1988) 189
Local online business, 30 (1998) 1223
Local telephone distribution, 12 (1986) 11
Local waiting time, 20 (1990) 425
Locality, 18 (1989/90) 243
Log files, 27 (1994/95) 1065
Log summation, 30 (1998) 2211
Logging, 30 (1998) 587
Logical connectivity, 30 (1998) 981
Logical loop, 12 (1986) 11
Logical naming scheme, 28 (1995/96) 99
Logical position, 14 (1987) 179
Logon, 19 (1990) 105
Loop free topology, 13 (1987) 323
3-Loop model, 23 (1991/92) 79
Loop networks, 15 (1988) 229
Loop topologies, 11 (1986) 29
Loss, 29 (1996/98) 2021
Loss probability, 27 (1994/95) 627; 29 (1996/98) 1881
Loss-sensitive, 27 (1994/95) 45
LOTOS, 13 (1987) 75; 18 (1989/90) 335; 21 (1991) 53; 23 (1991/92) 325, 393; 27 (1994/95) 1111; 29 (1996/98) 107, 271, 457, 473, 501; 30 (1998) 1045
LOTOS (language of temporal ordering specification), 26 (1996/98) 437, 30 (1998) 1389

MAC bridge, 22 (1991) 265
MAC protocol, 18 (1989/90) 97; 24 (1992) 15, 349; 27 (1994/95) 1137; 29 (1996/98) 2, 717; 30 (1998) 1013, 1065
Machine identification, 15 (1988) 285
Machine learning, 28 (1995/96) 137; 30 (1998) 369, 649
Maching cubes, 29 (1996/98) 1737
Macros, 30 (1998) 239
Magic boxes, 12 (1986) 159
Magnetic stripe card, 13 (1987) 235
Mail, 19 (1990) 319, 356
Mail address, 17 (1989) 263
Mail addressing, 13 (1987) 195
Mail gateways, 13 (1987) 195
Mail interchange, 13 (1987) 195
Mail networks, 13 (1987) 195; 16 (1988/89) 48
Mail service, 13 (1987) 195
Mail standards, 16 (1988/89) 153
Mailbox, 14 (1987) 323, 339

Mailing lists, 25 (1993/94) S72
MAN, 18 (1989/90) 97; 20 (1990) 261, 277; 24 (1992) 109; 153, 367; 28 (1995/96) 589; 29 (1996/98) 717, 1969; 30 (1998) 1669
Managed objects, 16 (1988/89) 167
Management, 14 (1987) 259, 279; 15 (1988) 61; 19 (1990) 191; 23 (1991/92) 33, 37; 29 (1996/98) 1405; 30 (1998) 347, 1559
Management domains, 28 (1995/96) 689
Management functional areas, 16 (1988/89) 167
Management information, 16 (1988/89) 167
Mandatory access controls, 22 (1991) 323
Man-machine interface, 14 (1987) 123
Man–machine interference, 12 (1986) 175
MANs, 30 (1998) 1013
Manufacturing automation protocols, 14 (1987) 291; 21 (1991) 357
Manufacturing message specification (MMS), 21 (1991) 357
MAP/TOP 3.0 directory, 16 (1988/89) 44
Market research, 14 (1987) 179
Marketing, 26 (1994/95) S85
Markets, 28 (1995/96) 1769
Markov chain analysis, 24 (1992) 81
Markov chains, 24 (1992) 421; 27 (1994/95) 1137; 30 (1998) 901
Markov decision process, 30 (1998) 999
Markov modulated poisson process (MMPP), 20 (1990) 415
Markovian system, 15 (1988) 87
Markup, 30 (1998) 679
Markup algebra, 30 (1998) 259
Markup languages, 30 (1998) 225, 239, 389
MARS, 28 (1995/96) 1929
M-ary duobinary, 22 (1991) 287
M-ary PAM, 22 (1991) 287
Master/slave model, 28 (1995/96) 1207
Matching algorithms, 18 (1989/90) 133
Mathematics, 30 (1998) 679
Matrix-geometric, 21 (1991) 399
Maximum intensity projection, 30 (1998) 2003
Maximum throughput, 17 (1989) 201; 30 (1998) 1083, 2337
Maximum-delay-first-serve service strategy, 22 (1991) 225
MBone, 27 (1994/95) 781; 30 (1998) 431
MBone WWW, 29 (1996/98) 1083
2 Mbps, 21 (1991) 333
34 Mbps, 25 (1993/94) S131
M/D/1 queue, 20 (1990) 37
M/D/1 queue with gradual input, 27 (1994/95) 521
MDNS, 17 (1989) 346
Mean time to failure, 20 (1990) 109
Mean time to restore, 20 (1990) 109
Mean waiting-time approximation, 17 (1989) 15
Measured performance, 18 (1989/90) 31
Measurement, 20 (1990) 435; 30 (1998) 1607
Media, 27 (1994/95) 781
Media access control, 24 (1992) 109
Media access protocols, 15 (1988) 177; 20 (1990) 253; 29 (1996/98) 335, 1901
Media design, 27 (1994/95) 1037
Media scaling, 29 (1996/98) 1467
Media space, 28 (1995/96) 491
Media synchronisation, 21 (1991) 315; 27 (1994/95) 1231
Medical applications, 30 (1998) 2003
Medical images, 28 (1995/96) 1971
Medium access control, 29 (1996/98) 249, 1933
Medium speed, 21 (1991) 333
Meeting, 30 (1998) 710
Meganet concept, 23 (1991/92) 57
Memory access, 20 (1990) 271
Memory-based, 30 (1998) 205
Mental models, 15 (1988) 73
Merchant system, 28 (1995/96) 1197
Mercury Project, 28 (1995/96) 209
Message delay, 24 (1992) 387
Message fragmentation, 19 (1990) 79
Message handling, 15 (1988) 55; 16 (1988/89) 40, 48
Message Handling Services (MHS), 17 (1989) 324, 350
Message handling systems, 12 (1986) 225; 13 (1987) 195; 14 (1987) 137, 339; 17 (1989) 263
Message mapping set, 28 (1995/96) 1831
Message Sequence Charts, 28 (1995/96) 1643
Message slot, 15 (1988) 31
Message store, 14 (1987) 339
Message switch, 29 (1996/98) 397
Message transfer service, 14 (1987) 339
Message transfer system, 19 (1990) 79
Message-switching, 14 (1987) 159
Meta information, 27 (1994/95) 739; 28 (1995/96) 1063, 1243
Meta search, 30 (1998) 95
Metabit, 23 (1991/92) 129
Metacommunication, 15 (1988) 73
Metacomputing, 30 (1998) 1669
Metadata, 29 (1996/98) 1137, 1405; 30 (1998) 1, 11, 173, 567, 619, 691, 701
Metadata data models, 30 (1998) 23
Metadata software, 30 (1998) 23
Metadata standards, 30 (1998) 23
Metadata systems, 30 (1998) 389, 610
Meta-implementation, 14 (1987) 61
Metaphors, 29 (1996/98) 1519
Meteor shower, 29 (1996/98) 1507

Meteorology, 28 (1995/96) 189
Metering, 30 (1998) 541
Methodology, 14 (1987) 187; 28 (1995/96) 1685
Metrics, 28 (1995/96) 993; 30 (1998) 551
Metropolitan area network, 13 (1987) 291; 15 (1988) 177; 18 (1989/90) 379; 19 (1990) 95; 20 (1990) 223, 231, 253, 343; 21 (1991) 109; 24 (1992) 15, 171, 185; 27 (1994/95) 1399, 1479; 28 (1995/96) 481
M/G/1/L queue with vacation, 24 (1992) 45
MHS, 16 (1988/89) 6, 8, 75, 153; 24 (1992) 65
MHS connection between China and Fed. Rep. Germany, 16 (1988/89) 83
Microcomputer, 15 (1988) 313
Micro-payments, 29 (1996/98) 939
MIDI, 29 (1996/98) 897
Mid-level management tool, 28 (1995/96) 441
Migration, 14 (1987) 323; 17 (1989) 344, 362; 19 (1990) 246; 23 (1991/92) 171, 177
Migration strategy, 16 (1988/89) 94; 17 (1989) 376
Migration transparency, 28 (1995/96) 1255
MIME, 28 (1995/96) 1979
MIN architecture, 30 (1998) 835
Minimum contention, 13 (1987) 15
Minimum hop, 16 (1988/89) 367
Mini-slots, 17 (1989) 201
MINT, 16 (1988/89) 55
Mirroring, 30 (1998) 2211
Mission-oriented networks, 16 (1988/89) 146
MIT/LCS, 28 (1995/96) 13
Mixed-media services, 16 (1988/89) 129
Mixed-mode transmission, 14 (1987) 155
Mjølner, 13 (1987) 97
M-matrix, 22 (1991) 213
MMI, 14 (1987) 123
MMM, 28 (1995/96) 1105
MMPP, 29 (1996/98) 781
MMRP, 27 (1994/95) 1175
MMS objects, 21 (1991) 357
MMS services, 21 (1991) 357
Mobile, 28 (1995/96) 1445
Mobile agent, 30 (1998) 1551
Mobile applications, 28 (1995/96) 1373
Mobile ATM simulation, 29 (1996/98) 2067
Mobile code, 28 (1995/96) 1037, 1365; 30 (1998) 119, 251
Mobile communication system, 30 (1998) 1045
Mobile communications, 28 (1995/96) 613
Mobile computing, 28 (1995/96) 53, 1431; 29 (1996/98) 1439
Mobile devices, 29 (1996/98) 1417
Mobile hosts, 27 (1994/95) 479
Mobile networking, 27 (1994/95) 479
Model for information flow, 14 (1987) 237
Model-checking, 24 (1992) 203
Modelers, 30 (1998) 1875
Modeling, 20 (1990) 101, 369; 27 (1994/95) 1111; 28 (1995/96) 789; 29 (1996/98) 745; 30 (1998) 85, 551, 578, 626, 1295, 2037
Modem interfacemodule (MIM), 18 (1989/90) 115
Modem interworking, 20 (1990) 57
Modularity, 22 (1991) 35; 27 (1994/95) 611
Modulo arithmetic, 13 (1987) 235
Monitoring, 15 (1988) 61; 28 (1995/96) 441; 30 (1998) 654
Monitoring of networks, 23 (1991/92) 73
Moored buoy, 28 (1995/96) 189
Mosaic, 27 (1994/95) 849, 1097
Most-forward-routing, 11 (1986) 337
MOTIS, 14 (1987) 137; 16 (1988/89) 153
Motorways, 14 (1987) 167
Movable-boundary, 18 (1989/90) 1
MPEG, 26 (1994/95) S139; 28 (1995/96) 1929
MSC, 28 (1995/96) 1629, 1685
MTA, 16 (1988/89) 55
Multi-access, 15 (1988) 217
Multi-access protocol, 12 (1986) 99; 15 (1988) 341; 28 (1995/96) 371
Multiaddress networks, 20 (1990) 95
Multi-agent, 29 (1996/98) 1137
Multicast, 20 (1990) 95; 22 (1991) 155, 165; 27 (1994/95) 781; 28 (1995/96) 1929; 29 (1996/98) 1953; 30 (1998) 431, 2169, 2223, 2245
Multicast communication, 27 (1994/95) 1429
Multicast control, 19 (1990) 308
Multicast routing, 28 (1995/96) 429; 29 (1996/98) 841
Multicast service, 27 (1994/95) 117
Multicast switches, 30 (1998) 835
Multicasting, 21 (1991) 81
Multichannel, 27 (1994/95) 29
Multichannel local area network, 18 (1989/90) 323
Multichannel media access, 12 (1986) 99
Multichannel transmission, 29 (1996/98) 195, 209
Multiclass system, 20 (1990) 37
Multicountry network coalition, 20 (1990) 81
Multi-ended hyperlink, 30 (1998) 663
MultiG, 24 (1992) 119
Multihop, 29 (1996/98) 1901; 30 (1998) 981
Multihop packet radio, 12 (1986) 39
Multilateral security, 30 (1998) 1597
Multi-level approach, 27 (1994/95) 591
Multi-level security, 29 (1996/98) 927, 1799
Multilingual, 30 (1998) 173, 271
Multilingual retrieval, 30 (1998) 612
Multilingualism, 27 (1994/95) 429
Multilinguality, 30 (1998) 499
Multimedia, 17 (1989) 324; 21 (1991) 285, 315; 22 (1991) 165; 23 (1991/92) 91, 157;

25 (1993/94) S49; 26 (1994/95) S29, S93, S179; 27 (1994/95) 1231, 1247; 28 (1995/96) 53, 77, 269, 481, 513, 1187, 1559, 1979; 29 (1996/98) 473, 675, 897, 1519, 1881; 30 (1998) 407, 519, 578, 594, 672, 1201, 1209, 1543, 1717, 1933
Multimedia applications, 30 (1998) 1627
Multimedia Broker, 30 (1998) 1233
Multimedia communications, 12 (1986) 225; 23 (1991/92) 143
Multimedia conference, 17 (1989) 324
Multimedia conferencing, 30 (1998) 1457
Multi-media data structure, 18 (1989/90) 47
Multimedia database systems, 27 (1994/95) 1017
Multimedia document interchange, 21 (1991) 211
Multimedia documents, 19 (1990) 215; 21 (1991) 187; 23 (1991/92) 143
Multimedia handling, 30 (1998) 1237
Multimedia information, 26 (1994/95) S39, S55; 29 (1996/98) 745
Multimedia information retrieval, 30 (1998) 604
Multimedia information retrieval systems, 27 (1994/95) 1055
Multimedia mail, 17 (1989) 324
Multimedia networks, 29 (1996/98) 325
Multimedia presentations, 30 (1998) 649
Multimedia protocols, 29 (1996/98) 745
Multimedia services, 22 (1991) 249
Multimedia systems, 30 (1998) 660
Multimedia traffic, 27 (1994/95) 1411
Multimedia workstations, 17 (1989) 324
Multiobjective decision-making, 16 (1988/89) 217
Multiparty cooperation, 30 (1998) 1657
Multiple access, 27 (1994/95) 1429, 1523
Multiple access protocols, 18 (1989/90) 275; 28 (1995/96) 283
Multiple perspective video, 28 (1995/96) 1559
Multiple queues, 22 (1991) 193
Multiple representation, 29 (1996/98) 1467
Multiple servers, 17 (1989) 15
Multiple-source information fusion, 14 (1987) 221
Multiplexer, 28 (1995/96) 411
Multiplexing, 20 (1990) 37; 21 (1991) 333; 24 (1992) 277
Multiply connected networks, 11 (1986) 1
Multipoint, 28 (1995/96) 269
Multipoint communication, 20 (1990) 383
Multi-protocol, 27 (1994/95) 919
Multi-protocol backbone, 29 (1996/98) 137
Multi-protocol backbone network, 25 (1993/94) S25
Multi-protocol routing, 21 (1991) 239; 29 (1996/98) 137
Multi-queue, 20 (1990) 217
Multiresolution, 29 (1996/98) 1587; 30 (1998) 1941
Multi-server multi-queue system, 20 (1990) 309
Multi-server search, 27 (1994/95) 1027
Multiservice, 25 (1993/94) S99, 25 (1993/94) S111
Multiservice networks, 11 (1986) 311; 29 (1996/98) 1999
Multi-table QBE, 28 (1995/96) 1139
Multi-tiered client/server systems, 28 (1995/96) 1149
Multi-transceiver stations, 15 (1988) 341
Multi-user protocols, 13 (1987) 15
Multiwavelength, 30 (1998) 981
Municipal area networks, 15 (1988) 135
Music description formats, 29 (1996/98) 897
Mutually disjoint events, 21 (1991) 129

Name assignment, 17 (1989) 127
Name resolution, 13 (1987) 257, 301; 23 (1991/92) 211
Name servers, 18 (1989/90) 255; 27 (1994/95) 773
Name services, 16 (1988/89) 161; 23 (1991/92) 211; 27 (1994/95) 765; 28 (1995/96) 921
Name space, 16 (1988/89) 48
Naming, 15 (1988) 269; 16 (1988/89) 48; 17 (1989) 127; 18 (1989/90) 255; 19 (1990) 246; 23 (1991/92) 241; 25 (1993/94) S3
NASA, 22 (1991) 131; 28 (1995/96) 221
National network, 16 (1988/89) 119
National networks and services, 23 (1991/92) 115
National research network, 23 (1991/92) 33
Native applications, 30 (1998) 1097
Native keyboard input methods, 30 (1998) 271
Natural language, 29 (1996/98) 1385
Natural language generation, 30 (1998) 666
Navigation, 28 (1995/96) 1345; 29 (1996/98) 1489; 30 (1998) 131, 638
Navigation support, 28 (1995/96) 85
Navigation tool, 30 (1998) 1841
Navigator, 28 (1995/96) 1335
NCD technique, 27 (1994/95) 1175
Nearly decomposable systems, 20 (1990) 391
Negotiation, 30 (1998) 777
Neguentropy, 14 (1987) 271
NetDyn, 29 (1996/98) 831
Netscape, 27 (1994/95) 1097
Netservice, 28 (1995/96) 53
Network access control, 22 (1991) 323
Network addressing, 11 (1986) 133
Network analysis tools, 20 (1990) 89
Network and server dimensioning, 28 (1995/96) 1397
Network applications, 16 (1988/89) 94; 17 (1989) 376; 19 (1990) 234

Network architecture, 28 (1995/96) 603
Network choice, 14 (1987) 365
Network computing, 29 (1996/98) 1769
Network configuration, 17 (1989) 37
Network congestion control, 28 (1995/96) 619
Network control protocol, 28 (1995/96) 269
Network delay, 15 (1988) 109
Network design, 15 (1988) 369; 17 (1989) 29; 20 (1990) 7, 115, 127, 155, 223; 28 (1995/96) 627; 30 (1998) 1663
Network dimensioning, 20 (1990) 115, 155
Network engineering, 20 (1990) 127
Network evolution, 20 (1990) 343
Network facility lifecycle, 19 (1990) 158
Network implementation, 30 (1998) 1663
Network information center, 23 (1991/92) 43
Network information discovery and retrieval, 28 (1995/96) 127
Network information retrieval, 27 (1994/95) 1027
Network infrastructure, 19 (1990) 181
Network integration, 20 (1990) 81
Network interconnection, 18 (1989/90) 79
Network interface, 11 (1986) 15
Network internal layer service (NILS), 23 (1991/92) 171
Network interworking, 17 (1989) 47
Network level relay, 16 (1988/89) 34
Network load control, 11 (1986) 99
Network management, 11 (1986) 133; 14 (1987) 323; 16 (1988/89) 101, 119, 146, 167; 17 (1989) 270, 346; 20 (1990) 143, 203; 21 (1991) 275; 22 (1991) 179; 23 (1991/92) 73; 25 (1993/94) S25; 27 (1994/95) 1367; 28 (1995/96) 441, 513; 29 (1996/98) 1417, 1843, 1869; 30 (1998) 951, 1551, 2283
Network migration, 17 (1989) 376
Network model, 16 (1988/89) 299
Network monitoring, 12 (1986) 175; 29 (1996/98) 831
Network operations, 16 (1988/89) 101; 23 (1991/92) 73
Network optimization, 17 (1989) 29
Network performance, 11 (1986) 1; 17 (1989) 1; 19 (1990) 79; 20 (1990) 3, 7; 28 (1995/96) 627, 1753; 29 (1996/98) 831
Network performance evaluation, 30 (1998) 1697
Network performance modeling, 28 (1995/96) 627
Network planning, 17 (1989) 29; 20 (1990) 7, 155
Network planning, servicing and monitoring, 29 (1996/98) 373
Network policy, 17 (1989) 239; 19 (1990) 170
Network protocols, 11 (1986) 367; 16 (1988/89) 94; 17 (1989) 376; 21 (1991) 109; 27 (1994/95) 101, 479
Network provision, 16 (1988/89) 108
Network reliability, 18 (1989/90) 133; 21 (1991) 121
Network requirements, 22 (1991) 83
Network resource management, 22 (1991) 363
Network security, 14 (1987) 389; 19 (1990) 201; 22 (1991) 179, 323; 29 (1996/98) 953
Network security threats, 22 (1991) 363
Network service access points, 29 (1996/98) 315
Network services, 19 (1990) 234; 27 (1994/95) 429
Network simulation, 11 (1986) 1; 19 (1990) 79
Network statistics, 23 (1991/92) 73
Network tariffs, 16 (1988/89) 146
Network technology, 30 (1998) 1617
Network termination, 14 (1987) 339
Network testing system, 12 (1986) 175
Network topology, 15 (1988) 189; 16 (1988/89) 94
Network traffic management, 20 (1990) 163
Network traffic modelling and ISDN networks, 30 (1998) 1677
Network transition, 16 (1988/89) 94
Networked, 29 (1996/98) 1601
Networking, 16 (1988/89) 124; 17 (1989) 337; 19 (1990) 173; 22 (1991) 103, 143; 30 (1998) 1669, 2065
Networking applications, 19 (1990) 181
Networking policy, 16 (1988/89) 6
Networking programmes, 25 (1993/94) S87
Networking services, 26 (1994/95) S107
Network-level services, 30 (1998) 2193
Networks, 12 (1986) 225; 13 (1987) 235; 14 (1987) 339; 15 (1988) 313, 329; 16 (1988/89) 267, 367; 19 (1990) 162, 356; 20 (1990) 109; 21 (1991) 129, 333; 22 (1991) 83; 26 (1994/95) S101; 30 (1998) 583, 1029
Network's software testing, 24 (1992) 33
Neural networks, 29 (1996/98) 325
New applications, 27 (1994/95) 809; 28 (1995/96) 1307
New services, 11 (1986) 269; 20 (1990) 425
New topics, 30 (1998) 669
New Zealand, 28 (1995/96) 1415
NeWS, 17 (1989) 312; 25 (1993/94) S82
Newsgroups, 28 (1995/96) 1157
Newspaper publishing, 14 (1987) 155
Next generation Internet, 30 (1998) 723
NJE, 19 (1990) 166, 234
NJE-IP, 19 (1990) 312
NNTP, 25 (1993/94) S82
Nodal decoupling, 29 (1996/98) 811
Node computers, 19 (1990) 186
Node failure, 12 (1986) 291
Node significance, 17 (1989) 29
Nomadic, 29 (1996/98) 1439

Non-blocking, 27 (1994/95) 627
Nonblocking networks, 20 (1990) 377
Non-blocking switching network, 20 (1990) 383
Nondeterminism, 28 (1995/96) 1603, 1669
Nonhierarchical network, 17 (1989) 29
Noninterleaved multiplexing, 30 (1998) 1341
Nonlinear link cost, 20 (1990) 115
Nonlinear programming, 20 (1990) 115
Non-swapping, 16 (1988/89) 267
Non-traditional user communities, 30 (1998) 1657
Non-uniform traffic, 27 (1994/95) 627
No-repudiability, 13 (1987) 235
North American ISDN user's forum (NIU-Forum), 18 (1989/90) 65
Notification, 27 (1994/95) 911
Notification servers, 29 (1996/98) 905
NP-*completeness*, 27 (1994/95) 101
NREN, 23 (1991/92) 37
NSAP, 17 (1989) 279
NSFnet, 16 (1988/89) 89
Null timing information reassembly scheme, 22 (1991) 225
Numbering plans, 17 (1989) 47
Numerical flow visualization, 22 (1991) 111
Numerical simulation, 21 (1991) 323

OAM, 27 (1994/95) 5
Object based systems, 23 (1991/92) 363
Object behavior, 27 (1994/95) 571
Object management, 23 (1991/92) 195
Object model, 15 (1988) 61
Object orientation, 28 (1995/96) 1269, 1603; 30 (1998) 281
Object oriented, 28 (1995/96) 1255; 29 (1996/98) 1007, 1405; 30 (1998) 2211
Object oriented modelling, 28 (1995/96) 1629
Object oriented programming, 29 (1996/98) 1869; 30 (1998) 1897
Object request broker, 28 (1995/96) 1149
Object transformation, 29 (1996/98) 1467
Object-based programming, 27 (1994/95) 1305
Object-based systems, 27 (1994/95) 1305
Object-orientation, 13 (1987) 97; 29 (1996/98) 1429; 30 (1998) 578
Object-oriented analysis, 27 (1994/95) 571; 29 (1996/98) 1869
Object-oriented representation, 14 (1987) 187
Objects, 23 (1991/92) 211
Ocean, 28 (1995/96) 189
Oceanography, 28 (1995/96) 189
ODA, 14 (1987) 123; 21 (1991) 149, 175, 187, 197, 211; 23 (1991/92) 153; 26 (1994/95) S15
ODA extensions, 21 (1991) 221
ODA profiles, 21 (1991) 165
ODIF, 21 (1991) 187
ODP, 17 (1989) 287; 23 (1991/92) 195; 27 (1994/95) 1231, 1305
ODP systems, 27 (1994/95) 1263
ODP Trader, 29 (1996/98) 457
OECD, 12 (1986) 235; 29 (1996/98) 1823
Office, 14 (1987) 187
Office automation, 11 (1986) 89; 14 (1987) 187, 199, 231, 279, 359
Office computers, 14 (1987) 267
Office document architecture, 16 (1988/89) 138; 23 (1991/92) 153
Office procedures, 15 (1988) 55
Office systems, 21 (1991) 197
Office technology, 14 (1987) 267
OLYMPUS, 23 (1991/92) 139
Online, 30 (1998) 1475
Online financial services, 28 (1995/96) 199
Online information, 26 (1994/95) S15
Online information space, 30 (1998) 1223
Online newspaper, 29 (1996/98) 1447; 30 (1998) 1223
Online resource, 26 (1994/95) S85
Online services, 26 (1994/95) S79
Online shopping, 28 (1995/96) 1469
Online update, 30 (1998) 327
Online user support system, 29 (1996/98) 1777
On/off sources, 24 (1992) 321
On-the-fly conversion, 16 (1988/89) 55
On-the-fly form generation, 28 (1995/96) 1139
Ontologies, 30 (1998) 567
OO frameworks, 30 (1998) 239
Open and secure communication, 19 (1990) 196; 23 (1991/92) 153
Open architecture, 28 (1995/96) 247
Open communications, 28 (1995/96) 709
Open distributed processing, 23 (1991/92) 191; 29 (1996/98) 457
Open distributed systems, 28 (1995/96) 941; 29 (1996/98) 413
Open document processing, 21 (1991) 149
Open hypermedia, 28 (1995/96) 1027; 30 (1998) 616
Open learning, 27 (1994/95) 871
Open network provision, 24 (1992) 1
Open networking, 23 (1991/92) 33
Open shops, 13 (1987) 235
Open standards, 17 (1989) 312
Open systems, 15 (1988) 61; 19 (1990) 201, 265; 23 (1991/92) 101, 153; 28 (1995/96) 513; 30 (1998) 624
Open systems interconnect, 19 (1990) 191
Open systems interconnection, 11 (1986) 173, 277; 12 (1986) 159, 225; 14 (1987) 3, 25, 79, 291; 15 (1988) 269; 16 (1988/89) 34, 40, 311, 357, 395; 17 (1989) 111, 157, 187; 18 (1989/90) 203, 221; 22 (1991) 61; 23 (1991/92) 191, 241, 253, 325, 343, 393

Openness, 27 (1994/95) 1215
Operating system kernel, 15 (1988) 61
Operational network, 21 (1991) 275
Operational requirements, 17 (1989) 294
Operational semantics, 27 (1994/95) 1305
Operations system, 17 (1989) 37
OPERNET, 21 (1991) 299
Optical bus, 29 (1996/98) 2039
Optical disk storage, 22 (1991) 87
Optical fibers, 14 (1987) 339; 21 (1991) 347, 381
Optical fibre communications, 13 (1987) 275; 18 (1989/90) 323
Optical LANs, 28 (1995/96) 371
Optical networks, 11 (1986) 219; 27 (1994/95) 1387; 30 (1998) 981
Optical passive star, 30 (1998) 805
Optimal, 30 (1998) 1029
Optimal communication, 15 (1988) 203
Optimality condition, 20 (1990) 115
Optimization, 12 (1986) 139; 24 (1992) 387; 27 (1994/95) 1429
Optimization models, 29 (1996/98) 373
Optimum design paramters, 30 (1998) 2373
O/R address, 17 (1989) 263
O/R name, 17 (1989) 263
Oracle, 28 (1995/96) 1523
Order reduction, 29 (1996/98) 1559
Organisation of research network operation, 23 (1991/92) 29
Organization, 14 (1987) 167, 183; 30 (1998) 309
Organization of work, 14 (1987) 231, 245
Organization theory, 14 (1987) 259
Organizational analysis, 28 (1995/96) 799
Organizational impact, 14 (1987) 279
Organizational knowledge systems, 14 (1987) 221
ORL's ABS, 29 (1996/98) 865
Orwell, 24 (1992) 109
OSDL, 13 (1987) 97
OSI, 14 (1987) 79, 123, 323; 15 (1988) 269; 16 (1988/89) 34, 40, 311, 357, 395; 17 (1989) 284, 287, 294, 362, 367; 18 (1989/90) 185; 19 (1990) 173, 234, 246, 339; 21 (1991) 307; 22 (1991) 265; 23 (1991/92) 47, 111, 363; 26 (1994/95) S163
OSI abstract test methods, 22 (1991) 7
OSI addressing, 17 (1989) 279
OSI applications, 16 (1988/89) 75; 21 (1991) 17
OSI coexistence, 23 (1991/92) 185
OSI data services, 19 (1990) 286; 21 (1991) 261
OSI directory service, 17 (1989) 350
OSI integration, 19 (1990) 270
OSI layer, 19 (1990) 181
OSI management, 16 (1988/89) 167; 17 (1989) 270; 27 (1994/95) 1367
OSI migration, 16 (1988/89) 55, 150
OSI migration strategy, 17 (1989) 371
OSI network layer, 23 (1991/92) 253
OSI networking, 17 (1989) 344
OSI products, 16 (1988/89) 31
OSI protocols, 22 (1991) 7; 23 (1991/92) 11
OSI Reference Model, 28 (1995/96) 675
OSI routing, 17 (1989) 256
OSI security architecture, 17 (1989) 223
OSI services, 16 (1988/89) 108
OSI software, 19 (1990) 181
OSI standard, 16 (1988/89) 243; 24 (1992) 65; 29 (1996/98) 315
OSI systems, 17 (1989) 223
OSI transaction processing, 17 (1989) 175
OSI transport layer, 23 (1991/92) 253
Output buffers, 27 (1994/95) 627
Output process, 13 (1987) 333; 29 (1996/98) 2153
Outslot signalling, 14 (1987) 339
Overall grade-of-service, 20 (1990) 7
Overflow probability bound, 28 (1995/96) 1739
Overload, 24 (1992) 145
Overload control, 16 (1988/89) 281; 20 (1990) 45; 30 (1998) 999
Overload protection, 11 (1986) 111
Overload traffic, 20 (1990) 261
Overview diagrams, 27 (1994/95) 1075
Oz, 28 (1995/96) 931

Packed mode AAL protocols, 23 (1991/92) 287
Packet correlations, 20 (1990) 15
Packet delay, 20 (1990) 409
Packet fragmentation and reassembly, 23 (1991/92) 125
Packet handler, 14 (1987) 339
Packet interdeparture time, 13 (1987) 333
Packet loss, 20 (1990) 209
Packet network, 19 (1990) 11; 20 (1990) 425
Packet radio, 12 (1986) 1
Packet radio networks, 15 (1988) 341; 16 (1988/89) 229
Packet reassembly, 20 (1990) 15
Packet size, 24 (1992) 387
Packet switch, 14 (1987) 383; 20 (1990) 409
Packet switched networks, 16 (1988/89) 24; 20 (1990) 15; 22 (1991) 249
Packet switching, 11 (1988) 287; 12 (1986) 291; 14 (1987) 159, 339, 373; 16 (1988/89) 187; 20 (1990) 3, 171, 197; 21 (1991) 41; 28 (1995/96) 855; 29 (1996/98) 701
Packet switching networks, 12 (1986) 89; 15 (1988) 1
Packet synchronisation, 20 (1990) 15

Packet traffic, 20 (1990) 401
Packet traffic engineering, 20 (1990) 425
Packet video, 28 (1995/96) 345
Packet voice communication network, 22 (1991) 225
Packet voice service, 15 (1988) 31
Packet waiting time, 29 (1996/98) 249
Packet/circuit switching, 22 (1991) 303
Packet-switched networks, 12 (1986) 139, 175
Packet-voice, 15 (1988) 109
PAD, 17 (1989) 332
PageRank, 30 (1998) 107
Paging diffusion approximation, 20 (1990) 455
Pan-European information service, 23 (1991/92) 115
Pan-European telecommunications policy, 21 (1991) 247
Parallel processing, 14 (1987) 61, 373; 20 (1990) 209
Parallel virtual machine, 29 (1996/98) 1635
Partial order connections, 29 (1996/98) 745
Partial response signalling, 22 (1991) 287
Partial-insertion ring, 17 (1989) 15
Partially ordered service, 29 (1996/98) 675
Path access control, 20 (1990) 127
Path profiles, 30 (1998) 457
Payment systems, 13 (1987) 235
Pay-per-click, 29 (1996/98) 939
PDA, 29 (1996/98) 1075
PDH, 25 (1993/94) S111
Peakedness, 20 (1990) 415
Peer review, 28 (1995/96) 1523
Peer selection, 30 (1998) 2155
PEM, 25 (1993/94) S63; 26 (1994/95) S187
Performance, 12 (1986) 39, 277; 15 (1988) 189; 20 (1990) 101, 109, 369; 21 (1991) 399; 27 (1994/95) 1545; 28 (1995/96) 411; 29 (1996/98) 977, 1953; 30 (1998) 347, 601, 2349
Performance analysis, 11 (1986) 29; 12 (1986) 89, 329; 13 (1987) 21; 16 (1988/89) 347, 383; 20 (1990) 27, 231; 21 (1991) 41; 24 (1992) 349, 387; 26 (1996/98) 209, 1881; 27 (1994/95) 1387, 1523; 28 (1995/96) 1457; 30 (1998) 835, 901, 2179, 2203
Performance characteristics, 30 (1998) 1135
Performance evaluation, 11 (1986) 43, 89, 203; 12 (1986) 1; 15 (1988) 359; 16 (1988/89) 229; 17 (1989) 15, 89; 18 (1989/90) 263; 19 (1990) 129; 20 (1990) 261; 22 (1991) 193; 24 (1992) 367, 421; 26 (1996/98) 2187; 27 (1994/95) 1193, 1487; 28 (1995/96) 325, 743, 1809; 30 (1998) 821, 2373
Performance improvements, 24 (1992) 153
Performance investigations, 28 (1995/96) 429
Performance management, 22 (1991) 249
Performance metrics, 30 (1998) 1607
Performance modeling, 27 (1994/95) 653
Performance modelling, 28 (1995/96) 1809
Performance models, 30 (1998) 805
Performance monitoring, 16 (1988/89) 101
Performance prediction, 15 (1988) 1
Periodic sources, 26 (1996/98) 293
Periodicity, 20 (1990) 401
Perl, 26 (1994/95) S55
Permutation routing, 30 (1998) 2349
Persistent CSMA, 13 (1987) 333
Persistent CSMA/CD, 13 (1987) 333
Persistent information brokers, 29 (1996/98) 1237
Personal and temporal hyper bridges, 30 (1998) 669
Personal communications, 28 (1995/96) 613
Personal communications services, 28 (1995/96) 603
Personal computers, 14 (1987) 199; 17 (1989) 149
Personal information organizers, 29 (1996/98) 1103
Personal secure environment, 28 (1995/96) 1901
Personalization, 29 (1996/98) 1447; 30 (1998) 53
Perspective visualization, 30 (1998) 53
Petri nets, 18 (1989/90) 293; 28 (1995/96) 1105
Phone consumption, 14 (1987) 207
Photonic design, 17 (1989) 89
Photonic networks, 30 (1998) 1065
Photonic switches, 23 (1991/92) 129
Photorealistic images, 29 (1996/98) 1655
Physical delivery service, 14 (1987) 339
Physically based modelling, 30 (1998) 1897
Physically-based modeling, 29 (1996/98) 1571
Physics, 30 (1998) 1475
PICS, 16 (1988/89) 243; 24 (1992) 65
Pictures, 26 (1994/95) S101
Pilot projects, 19 (1990) 261; 23 (1991/92) 111
PIN, 13 (1987) 235
p_i-Persistent, 29 (1996/98) 717
Planning procedure, 13 (1987) 269
Playout buffering, 30 (1998) 1341
Plug-ins, 30 (1998) 1531
PODA, 21 (1991) 175
Point-to-destination, 11 (1986) 337
Poisson process, 16 (1988/89) 281
POL34, 30 (1998) 1669
Polarization independent acoustically tunable optical filter, 28 (1995/96) 773
Policing function, 24 (1992) 311
Policing problem, 30 (1998) 963
Policy, 12 (1986) 225; 23 (1991/92) 33; 26 (1994/95) S3, S193; 28 (1995/96) 1769, 1991

Policy evaluation, 29 (1996/98) 953
Polling, 27 (1994/95) 1429
Polling models, 20 (1990) 297; 22 (1991) 193
Polling networks, 22 (1991) 193
Polling systems, 17 (1989) 15
Polling-selecting, 12 (1986) 11
Polygon clipping, 29 (1996/98) 1661
Polygon simplification, 30 (1998) 1941
Polynomial coefficients, 29 (1996/98) 1559
Pomela/SPIN, 29 (1996/98) 357
Port-to-port connectivity, 29 (1996/98) 137
PostScript, 26 (1994/95) S15
Potential users, 14 (1987) 331
P-persistent, 12 (1986) 277
Pratt's formula, 20 (1990) 115
Prediction, 28 (1995/96) 811; 30 (1998) 457
Preemption, 30 (1998) 1029
Preemptive priority service, 29 (1996/98) 701
Prefetch, 29 (1996/98) 987
Prefetching, 28 (1995/96) 893; 29 (1996/98) 1457; 30 (1998) 682
Presentation, 30 (1998) 131, 676
Presentation context, 14 (1987) 297
Presentation layer, 14 (1987) 297
Press telecommunication, 14 (1987) 155
Pretty-printing, 30 (1998) 730
Pricing, 30 (1998) 951
Printing hypertext, 27 (1994/95) 1009
Priorities, 12 (1986) 89
Prioritization, 21 (1991) 1
Priority, 24 (1992) 145; 27 (1994/95) 1523; 29 (1996/98) 2021; 30 (1998) 1029
Priority operation, 24 (1992) 45
Priority queues, 29 (1996/98) 701
Priority queuing, 20 (1990) 217
Priority scheme, 27 (1994/95) 45
Privacy, 23 (1991/92) 163; 26 (1994/95) S149; 29 (1996/98) 1823; 30 (1998) 531, 1521
Privacy enhanced mail, 25 (1993/94) S63
Private automatic branch exchange (PABX), 14 (1987) 199
Private networks, 16 (1988/89) 395
Probabilistic Context Free Grammar, 27 (1994/95) 1193
Probability, 30 (1998) 925
Problem complexity, 24 (1992) 405
Process, 11 (1986) 353
Process algebras, 27 (1994/95) 1111; 28 (1995/96) 1643; 30 (1998) 901, 925
Processor loading, 11 (1986) 287
Processor sharing, 20 (1990) 217
Processor time, 11 (1986) 287
Product and document management, 30 (1998) 1249
Product data, 27 (1994/95) 691
Product form, 20 (1990) 271, 277; 22 (1991) 303
Production control, 14 (1987) 237
Production management information system, 30 (1998) 479
Productivity, 14 (1987) 199
Profile, 23 (1991/92) 11; 30 (1998) 443
Profile matching, 30 (1998) 443
Profiles, 18 (1989/90) 65
Program development, 22 (1991) 35
Program visualization, 29 (1996/98) 1577
Programmable proxies, 30 (1998) 509
Programmatic and specialized user interfaces, 29 (1996/98) 917
Programming by demonstration, 30 (1998) 688
Programming interface, 23 (1991/92) 11
Programming language, 15 (1988) 245
Progress properties, 11 (1986) 367
Progressive colour image transmission, 30 (1998) 2059
Projective geometry, 29 (1996/98) 1645, 1695
Promoting conference for open systems (POSI), 14 (1987) 291
Propagation delay, 12 (1986) 329
Protection, 26 (1994/95) S149
Protocol, 14 (1987) 61, 79; 15 (1988) 245; 22 (1991) 35; 23 (1991/92) 177, 305, 417; 27 (1994/95) 1523; 29 (1996/98) 1809
Protocol architectures, 22 (1991) 165; 28 (1995/96) 675
Protocol conformance testing, 22 (1991) 7; 27 (1994/95) 591
Protocol conversion, 18 (1989/90) 79; 21 (1991) 93; 28 (1995/96) 1831
Protocol design, 11 (1986) 89
Protocol design and analysis, 29 (1996/98) 675
Protocol extensions, 27 (1994/95) 765; 28 (1995/96) 981
Protocol implementation, 15 (1988) 245; 18 (1989/90) 221; 22 (1991) 51
Protocol mapping, 15 (1988) 269
Protocol migration, 12 (1986) 159
Protocol model, 22 (1991) 165
Protocol modifications, 23 (1991/92) 57
Protocol performance, 21 (1991) 307
Protocol reference model, 27 (1994/95) 5
Protocol schismess, 17 (1989) 256
Protocol specification, 11 (1986) 173, 297; 12 (1986) 147; 14 (1987) 25; 18 (1989/90) 221, 335
Protocol standards, 11 (1986) 173; 13 (1987) 313
Protocol synthesis, 29 (1996/98) 759
Protocol testing, 11 (1986) 277; 17 (1989) 77; 27 (1994/95) 1163
Protocol translation, 19 (1990) 105
Protocol validation, 29 (1996/98) 357
Protocol verification, 11 (1986) 297; 15 (1988) 245; 29 (1996/98) 181
Protocol-based bridging scheme, 13 (1987) 323
Protocol-less bridging scheme, 12 (1986) 81

Protocols, 16 (1988/89) 75, 187, 197, 311; 17 (1989) 337; 18(1989/90) 185; 19 (1990) 191, 234; 20 (1990) 179; 24 (1992) 219; 28 (1995/96) 247, 1105, 1659; 30 (1998) 651, 672, 1135, 1617
Protocols for reliable transmission of data, 27 (1994/95) 1633
Prototyping, 13 (1987) 119
Proxy, 28 (1995/96) 907, 931, 1445; 30 (1998) 205, 654, 2245
Proxy caches, 28 (1995/96) 1407; 30 (1998) 185, 2155, 2203
Proxy caching, 30 (1998) 195, 2253
Proxy servers, 28 (1995/96) 1063; 29 (1996/98) 977, 997; 30 (1998) 215, 2179
Proxy-browser interaction, 29 (1996/98) 1467
Pseudo-serving, 29 (1996/98) 1053
PTT services, 13 (1987) 235
Public annotations, 27 (1994/95) 911
Public computer systems, 26 (1994/95) S119
Public health service, 30 (1998) 1597
Public institution, 14 (1987) 267
Public key, 13 (1987) 235
Public key certification, 28 (1995/96) 1901
Public key cryptology, 25 (1993/94) S63
Public key infrastructure, 30 (1998) 1521
Public networks, 12 (1986) 209; 16 (1988/89) 24; 28 (1995/96) 1769
Publication, 30 (1998) 636
Publishers, 26 (1994/95) S15
Publishing, 26 (1994/95) S15; 28 (1995/96) 1175; 30 (1998) 1201, 1475
Publishing environments, 30 (1998) 610
Purchasing behavior, 28 (1995/96) 1469
Push, 29 (1996/98) 1091; 30 (1998) 33, 443, 721, 2223, 2245
Push-caching, 30 (1998) 2193
Push-type systems, 30 (1998) 53

QoS, 26 (1994/95) S163; 29 (1996/98) 539, 2021; 30 (1998) 1097, 2327, 1697, 2093
QoS characteristics, 26 (1994/95) S107
QoS parameters, 29 (1996/98) 555
QoS, performance analysis, 29 (1996/98) 781
QPSX, 16 (1988/89) 281
QTL, 29 (1996/98) 473
Quad-B tree, 30 (1998) 1991
Quad-R tree, 30 (1998) 1991
Quality, 30 (1998) 1475
Quality control, 30 (1998) 1887
Quality grade, 17 (1989) 37
Quality management, 26 (1994/95) S107
Quality of information, 26 (1994/95) S75
Quality of relationships, 28 (1995/96) 799
Quality of retrieval, 26 (1994/95) S75
Quality of service, 20 (1990) 3, 7; 26 (1994/95) S107; 27 (1994/95) 1231; 28 (1995/96) 351, 1187, 1753, 1915; 29 (1996/98) 595, 675, 2119
Quality of service modelling, 20 (1990) 7
Quality of services, 23 (1991/92) 143; 29 (1996/98) 569; 30 (1998) 777, 865, 951, 963, 1467, 2359
Quality of the news, 14 (1987) 179
Quasi-stationary distributions, 20 (1990) 391
Query execution, 28 (1995/96) 1139
Query expansion, 30 (1998) 621
Query languages, 27 (1994/95) 1027; 29 (1996/98) 1305
Question answering, 28 (1995/96) 137
Queue, 11 (1986) 15, 353
Queue analysis, 20 (1990) 409
Queueing analysis, 29 (1996/98) 293
Queue length, 20 (1990) 309
Queueing models, 29 (1996/98) 1999
Queueing networks, 29 (1996/98) 2153
Queueing systems, 24 (1992) 311
Queueing theory, 12 (1986) 329; 13 (1987) 21
Queues, 17 (1989) 15; 20 (1990) 197
Queues with distinct arrival streams, 28 (1995/96) 283
Queuing, 19 (1990) 11
Queuing model, 15 (1988) 359; 20 (1990) 27
Queuing networks, 15 (1988) 1; 20 (1990) 425
Queuing systems, 20 (1990) 45; 28 (1995/96) 345
Queuing theory, 20 (1990) 217, 285; 21 (1991) 41

RA access, 29 (1996/98) 1969
RACE, 17 (1989) 354; 19 (1990) 299; 23 (1991/92) 143
Radiation therapy, 28 (1995/96) 1971
Radio, 29 (1996/98) 1
Radio networks, 28 (1995/96) 675
Random access, 17 (1989) 201
Random access channels, 13 (1987) 15
Random access schemes, 12 (1986) 329; 22 (1991) 303
Random testing, 27 (1994/95) 1163
Random token, 28 (1995/96) 209
Rapid prototyping, 29 (1996/98) 1531
RARE, 16 (1988/89) 6, 8, 21, 24, 143, 150; 17 (1989) 239, 241; 19 (1990) 170, 261; 23 (1991/92) 115; 25 (1993/94) S135
Rate control, 27 (1994/95) 67; 28 (1995/96) 811; 29 (1996/98) 165
Rate-based feedback flow control, 29 (1996/98) 583
Rate-based flow control, 29 (1996/98) 2139
Rate-based mechanism, 30 (1998) 1749
Rate-controlled service discipline, 29 (1996/98) 2119
Ray tracing, 29 (1996/98) 1635
RDBMS, 29 (1996/98) 1291
RDBMS-to-WWW links, 28 (1995/96) 1139
Reachability analysis, 21 (1991) 93
Reactive objects, 27 (1994/95) 1231

Reactive systems, 22 (1991) 35; 28 (1995/96) 1585
Real time, 13 (1987) 3; 27 (1994/95) 1231; 28 (1995/96) 1685; 30 (1998) 479
Real time rendering, 29 (1996/98) 1705
Real time system, 11 (1986) 15
Realtime applications, 23 (1991/92) 143
Real-time conference, 29 (1996/98) 1091
Real-time data, 28 (1995/96) 189
Real-time interaction, 29 (1996/98) 897
Real-time provisioning, 20 (1990) 101
Real-time services, 28 (1995/96) 1547
Real-time traffic, 28 (1995/96) 855; 30 (1998) 2359
Rearrangeable networks, 20 (1990) 377
Re-assembly, 15 (1988) 109
Reassembly delay, 15 (1988) 1
Receive window, 11 (1986) 353
Reconfigurable systems, 15 (1988) 189
Reconfiguration, 29 (1996/98) 1857
Reconfiguration management, 30 (1998) 981
Recovery strategy, 15 (1988) 229
Redundant computational servers, 26 (1994/95) S157
Reed Solomon coding, 25 (1993/94) S99
Reference implementation, 14 (1987) 61
Reference model, 24 (1992) 1
Reference model for B-ISDN, 18 (1989/90) 47
Reference permanence, 30 (1998) 337
Referential integrity, 28 (1995/96) 1255
Refractions, 29 (1996/98) 1727
Regional Internet activities, 30 (1998) 1657
Register-insertion rings, 24 (1992) 349
Regulation, 17 (1989) 346; 29 (1996/98) 1823
Relational model, 14 (1987) 271
Relay servers, 26 (1994/95) S39
Relay system, 23 (1991/92) 171
Relay-DSAs, 26 (1994/95) S39
Relaying, 23 (1991/92) 241
Relays, 16 (1988/89) 55
Relevance feedback, 29 (1996/98) 1317; 30 (1998) 621
Relevant time scale, 20 (1990) 401
Reliability, 13 (1987) 313; 21 (1991) 129; 27 (1994/95) 773
Reliability and fault tolerance, 11 (1986) 29
Reliability mechanisms, 11 (1986) 121
Reliable multicast, 29 (1996/98) 1083, 1091
Remote access, 26 (1994/95) S157
Remote access to supercomputers, 17 (1989) 328
Remote communication concentrator (RCC), 18 (1989/90) 115
Remote control, 28 (1995/96) 209
Remote job entry, 16 (1988/89) 40; 17 (1989) 256
Remote objects, 29 (1996/98) 1577
Remote Operations (ROSE), 27 (1994/95) 571
Remote procedure calls, 17 (1989) 256; 23 (1991/92) 191
Remote procedures, 28 (1995/96) 1603
Remote terminal access, 16 (1988/89) 21
Rendering, 29 (1996/98) 1727
Rendering optical phenomena, 29 (1996/98) 1705
Rendering styles, 29 (1996/98) 1377
Renegotiation, 30 (1998) 2327
Renewal theory, 27 (1994/95) 1137
Repacking, 16 (1988/89) 281
Replication, 28 (1995/96) 119, 921; 30 (1998) 2141
Replication network, 29 (1996/98) 1953
Repository, 28 (1995/96) 1335; 30 (1998) 1201
Repudiation, 17 (1989) 315
Request routing, 30 (1998) 2269
Requestor/server model, 15 (1988) 97
Requirement specification, 13 (1987) 119; 28 (1995/96) 1629
Requirements, 14 (1987) 123; 23 (1991/92) 91
Requirements engineering, 13 (1987) 91; 30 (1998) 865
Requirements/specifications, 27 (1994/95) 1287
ReRA, 30 (1998) 1627
Research, 28 (1995/96) 1857; 30 (1998) 559
Research and development (R&D) networks, 23 (1991/92) 171
Research and telecommunication policies, 17 (1989) 344
Research networks, 16 (1988/89) 75; 19 (1990) 181; 19 (1990) 234; 23 (1991/92) 91; 28 (1995/96) 1991
Resemblance, 29 (1996/98) 1157
Reservation protocol, 29 (1996/98) 1969
Reservation-based, 30 (1998) 1135
Residential broadband, 30 (1998) 1295
Resilience, 30 (1998) 2261
Resource allocation, 23 (1991/92) 305; 28 (1995/96) 1739; 29 (1996/98) 2187
Resource allocation algorithms, 29 (1996/98) 1999
Resource analysis, 28 (1995/96) 1407
Resource control, 28 (1995/96) 269
Resource descriptors, 28 (1995/96) 1027
Resource discovery, 27 (1994/95) 973, 1009; 28 (1995/96) 109, 119; 29 (1996/98) 1305; 30 (1998) 317, 1185, 1479, 1559
Resource finding, 27 (1994/95) 1429
Resource location, 27 (1994/95) 1003
Resource maintenance, 28 (1995/96) 1027
Resource management, 17 (1989) 1; 19 (1990) 79; 20 (1990) 323; 24 (1992) 321; 29 (1996/98) 583
Resource reservation, 30 (1998) 1627
Resource reservation in advance, 28 (1995/96) 1915

Resource sharing, 30 (1998) 951
Resources, 30 (1998) 1263
Response time, 12 (1986) 107
Responsibility, 17 (1989) 315
Responsive interaction, 29 (1996/98) 1507
Rest input, 27 (1994/95) 591
Retail banking, 28 (1995/96) 199
Retransmission, 11 (1986) 353
Retransmission rate, 12 (1986) 277
Retransmission schemes, 29 (1996/98) 181
Retransmission strategies, 21 (1991) 381
Retrieval, 27 (1994/95) 973, 1027; 28 (1995/96) 1123; 30 (1998) 646
Retrieval and resource discovery, 27 (1994/95) 953; 28 (1995/96) 1007
Revenue models, 27 (1994/95) 1037
Reverse-time processes, 20 (1990) 315
Reversible, 16 (1988/89) 267
RFC 1174, 23 (1991/92) 43
RFC 987, 17 (1989) 263
RFC-822, 16 (1988/89) 48
RFC-987, 16 (1988/89) 48
RFT, 21 (1991) 197
RGB colour space, 30 (1998) 2059
Ring networks, 11 (1986) 133; 24 (1992) 349
RIPE, 19 (1990) 173
RIPE NCC, 25 (1993/94) S58
Risk analysis, 17 (1989) 223; 20 (1990) 65
Risk assessment, 27 (1994/95) 1447
RM-ODP, 27 (1994/95) 1247
ROADS, 30 (1998) 1479
Robots, 28 (1995/96) 209, 993; 30 (1998) 119
Robust network design, 20 (1990) 81
Robustness, 13 (1987) 313; 18 (1989/90) 275
Rollback, 20 (1990) 209
Round-robin multiplexing, 30 (1998) 1341
Route selection, 15 (1988) 121
Routers, 19 (1990) 308
Routing, 12 (1986) 147; 15 (1988) 329; 16 (1988/89) 179, 267, 367; 17 (1989) 256; 19 (1990) 246, 251; 20 (1990) 95, 127, 189; 21 (1991) 333; 23 (1991/92) 241; 24 (1992) 405; 25 (1993/94) S72; 29 (1996/98) 631, 1999, 2039; 30 (1998) 795
Routing algorithms, 28 (1995/96) 743
Routing and congestion control, 29 (1996/98) 583
Routing communities, 25 (1993/94) S72
Routing protocols, 27 (1994/95) 1633
Routing simulations, 30 (1998) 805
Routing strategy, 27 (1994/95) 101
RSA, 22 (1991) 323
RSVP, 28 (1995/96) 1915; 30 (1998) 1447
RTCP, 30 (1998) 1531
RTMW (Real Time Multimedia Web), 30 (1998) 685
RTP, 30 (1998) 1531
RTP/RTCP (Real-Time Transport Protocol/RTP Control Protocol), 30 (1998) 685
Rule-based systems, 24 (1992) 33; 29 (1996/98) 1029
Run-time, 30 (1998) 1421
Rural Chinese postman method, 30 (1998) 1277
Rural Chinese postman problem, 22 (1991) 7

S interface, 14 (1987) 339
SAP (Session Announcement Protocol), 30 (1998) 685
Satellite, 23 (1991/92) 139; 29 (1996/98) 1763
Satellite communications, 16 (1988/89) 129; 28 (1995/96) 563
Satellite data, 19 (1990) 362
Satellite transmission, 21 (1991) 307
Satellites, 21 (1991) 285
SATINE system, 16 (1988/89) 129
Scalability, 27 (1994/95) 911; 29 (1996/98) 1019; 30 (1998) 2253, 2261
Scalable distribution, 29 (1996/98) 841
Scalable video coding, 29 (1996/98) 1833
Scale, 28 (1995/96) 551
Scaling, 30 (1998) 347
Scanning, 28 (1995/96) 835
Scenario, 30 (1998) 1045
Scene modeling, 28 (1995/96) 1559
Scheduling, 29 (1996/98) 539; 30 (1998) 1029
Scheduling algorithms, 27 (1994/95) 67, 1487; 30 (1998) 2309, 2359
Scholarly electronic publishing, 28 (1995/96) 239
Scientific data server, 27 (1994/95) 801
Scientific visualization, 22 (1991) 111; 28 (1995/96) 155
Scientism, 14 (1987) 271
Scripting, 29 (1996/98) 1843; 30 (1998) 676, 713
Scripting language, 28 (1995/96) 1269; 30 (1998) 259
Scripts, 28 (1995/96) 1291
SDH, 25 (1993/94) S111
SDL, 13 (1987) 65, 75, 91, 97, 119; 16 (1988/89) 311; 18 (1989/90) 335; 28 (1995/96) 1585; 29 (1996/98) 357; 30 (1998) 865
SDL tools, 28 (1995/96) 1703
SDL-84, 28 (1995/96) 1603
SDL-88, 28 (1995/96) 1603
SDL-92, 28 (1995/96) 1603, 1603, 1617, 1629, 1659, 1669, 1685
SDP (Session Description Protocol), 30 (1998) 685
Sea surface temperature, 28 (1995/96) 189
Search, 27 (1994/95) 1027; 29 (1996/98) 1129, 1193; 30 (1998) 469, 646, 701

Search algorithms and bandwidth, 13 (1987) 301
Search and indexing techniques, 30 (1998) 149
Search engines, 29 (1996/98) 1181, 1225; 30 (1998) 1, 95, 107, 173, 369, 379, 604
Search: Taxonomies, 30 (1998) 65
Search techniques, 29 (1996/98) 1225
Search-engine, 30 (1998) 567
Searching, 28 (1995/96) 85, 119, 147; 30 (1998) 141, 658
Secret key, 13 (1987) 235
Secure payments, 28 (1995/96) 1197
Secure transactions, 28 (1995/96) 1197
Security, 13 (1987) 235; 15 (1988) 67; 17 (1989) 141, 315; 23 (1991/92) 167; 25 (1993/94) S63; 26 (1994/95) S157; 27 (1994/95) 765, 773, 1047, 1055; 28 (1995/96) 513, 709, 1187; 29 (1996/98) 927, 1357, 1809; 30 (1998) 531, 541, 607, 1511, 1559, 1637
Security and authorization, 30 (1998) 651
Security and privary, 19 (1990) 196
Security management, 30 (1998) 1597
Security management and protocols, 17 (1989) 223
Security management database, 17 (1989) 223
Security mechanism, 17 (1989) 315
Security negotiation, 30 (1998) 1597
Security policy, 17 (1989) 315; 19 (1990) 196; 28 (1995/96) 499
Security service, 17 (1989) 315; 19 (1990) 196
Seed filling, 30 (1998) 2003
Segment-by-segment rate-based flow control, 30 (1998) 1811
Segmented channels, 27 (1994/95) 1545
Segnet, 16 (1988/89) 347
Selection criteria, 14 (1987) 365
Selective discard, 29 (1996/98) 2153
Selective dissemination of information, 30 (1998) 33
Selective refinement, 29 (1996/98) 1587
Selective repeat protocol, 27 (1994/95) 677; 19 (1990) 129
Selectors, 17 (1989) 279
Self-efficacy, 30 (1998) 629
Self-healing, 29 (1996/98) 1857
Self-organization, 14 (1987) 271
Self-organizing, 30 (1998) 2169
Semantic mark-up, 27 (1994/95) 1009
Semantic relatedness, 30 (1998) 75
Semantic remote-pointers, 29 (1996/98) 1083
Semantics, 24 (1992) 203; 28 (1995/96) 1643; 30 (1998) 925
Semi-automatic implementation of protocols, 18 (1989/90) 221
Semi-autonomous information retrieval, 29 (1996/98) 1237
Semi-FIFO, 27 (1994/95) 1633
SEMPER, 30 (1998) 1501
Send window, 11 (1986) 353
Sep, 29 (1996/98) 1225
Sequence number, 11 (1986) 353
Sequence (traditional sequence), 14 (1987) 179
Sequenced at-most-once message delivery, 27 (1994/95) 1615
Server, 28 (1995/96) 931, 1113; 29 (1996/98) 965; 30 (1998) 347
Server API, 30 (1998) 509
Server architecture, 27 (1994/95) 919
Server channel, 30 (1998) 2141
Server interconnectivity, 29 (1996/98) 1029
Server invalidation, 30 (1998) 185
Server technology, 30 (1998) 697
Server workload, 28 (1995/96) 37
Server-based authoring tools, 29 (1996/98) 1507
Server-based WWW applications construction, 29 (1996/98) 1507
Server-side editors, 28 (1995/96) 1291
Service architecture, 30 (1998) 1389
Service combinators, 30 (1998) 259
Service creation, 30 (1998) 1363
Service feature, 30 (1998) 1389
Service integration, 29 (1996/98) 335, 1041
Service interaction, 30 (1998) 1363
Service mapping, 13 (1987) 257
Service module, 17 (1989) 37
Service provisioning, 30 (1998) 1677
Service Specific Connection Oriented Protocol (SSCOP), 29 (1996/98) 181
Serviceability, 30 (1998) 2283
Services, 14 (1987) 339; 16 (1988/89) 75, 311; 28 (1995/96) 1659
Services and mechanisms, 15 (1988) 67
Services integration, 24 (1992) 171; 29 (1996/98) 2187
Services protocols, 18 (1989/90) 47
Session control, 28 (1995/96) 69
Session management, 29 (1996/98) 1041
Session service data unit, 24 (1992) 65
Session service provider, 16 (1988/89) 243
SGML, 21 (1991) 149; 26 (1994/95) S15; 27 (1994/95) 831, 841, 985; 28 (1995/96) 1095
SGML on the World-Wide Web, 28 (1995/96) 3
SGML to HTML translation, 28 (1995/96) 239
SGML validation, 29 (1996/98) 1367
SHARE, 19 (1990) 275
Shared bus, 29 (1996/98) 2039
Shared queueing, 28 (1995/96) 835
Shared state, 29 (1996/98) 905
Shared virtual world, 30 (1998) 1865
Shared WAN, 23 (1991/92) 125
Shared workspaces, 27 (1994/95) 739; 28 (1995/96) 69

Shared-buffer switch, 27 (1994/95) 611
Shopping, 30 (1998) 643
Shortest path routing, 18 (1989/90) 379
Shortest paths, 12 (1986) 27; 15 (1998) 329; 16 (1988/89) 367; 24 (1992) 405
Shuffle Multihop networks, 28 (1995/96) 743
Shuffle network, 30 (1998) 2349
Shuffleout, 29 (1996/98) 1953
Signaling, 27 (1994/95) 5; 30 (1998) 2327
Signalling, 23 (1991/92) 287; 28 (1995/96) 307, 619
Signatures, 13 (1987) 235; 29 (1996/98) 1157
Similarity, 29 (1996/98) 1157
Simulated annealing, 20 (1990) 223
Simulation, 11 (1986) 15, 183; 16 (1988/89) 197, 383; 17 (1989) 193; 24 (1992) 387; 27 (1994/95) 653, 1387; 29 (1996/98) 237, 1675; 30 (1998) 707, 2037
Simulation of access protocols, 29 (1996/98) 653
Simulation study, 24 (1992) 367; 30 (1998) 1597
Simulation tools, 29 (1996/98) 2165
Simultaneous work, 28 (1995/96) 1385
SingAREN, 30 (1998) 723
Single path routing, 24 (1992) 405
Single sign-on, 22 (1991) 323
Single-packet buffers, 29 (1996/98) 24
Site, 30 (1998) 309
Site management, 30 (1998) 636
Site mapping, 29 (1996/98) 1269; 30 (1998) 317
Site maps, 30 (1998) 11
Slate, 23 (1991/92) 153
Slicing, 29 (1996/98) 107
Slot reuse, 24 (1992) 153; 29 (1996/98) 1933
Slotted ALOHA, 22 (1991) 213
Slotted ring, 17 (1989) 15, 193; 24 (1992) 15; 27 (1994/95) 1387
Slotted ring network, 13 (1987) 313; 20 (1990) 309
Smart card, 14 (1987) 389; 30 (1998) 1511
SMDS, 23 (1991/92) 119; 24 (1992) 81, 279; 25 (1993/94) S111; 27 (1994/95) 117
SMIL, 30 (1998) 519, 30 (1998) 694
SNA, 14 (1987) 61
SNMP, 28 (1995/96) 441
SOAPs, 27 (1994/95) 739
Social determinants, 14 (1987) 207
Social responsibility, 27 (1994/95) 1037
Social sciences, 26 (1994/95) S79
Social structure, 26 (1994/95) S149
Sociocybernetics, 14 (1987) 271
Software, 25 (1993/94) S82
Software agents, 28 (1995/96) 127
Software and logical structure relationship, 14 (1987) 179
Software design method, 15 (1988) 245
Software development, 28 (1995/96) 13
Software development environment, 27 (1994/95) 789
Software engineering, 29 (1996/98) 1041, 1429
Software environments, 16 (1988/89) 197
Software evaluation, 26 (1994/95) S107
Software tools, 16 (1988/89) 197
Software-only video codec, 29 (1996/98) 1833
SOIF, 30 (1998) 1571
Solid modeling, 30 (1998) 1853
SOLO, 26 (1994/95) S39
Solutions with bridges and routers, 23 (1991/92) 57
Source routing, 22 (1991) 265; 29 (1996/98) 237
Source-to-terminal reliability, 21 (1991) 121
Space communications, 22 (1991) 131
Space data network, 21 (1991) 275
Space networking, 22 (1991) 131
Space priority, 20 (1990) 37
Space scientists, 19 (1990) 362
Space Station Freedom, 22 (1991) 131
Space telemetry, 25 (1993/94) S99
Space-division, 27 (1994/95) 627
Space-time characteristics, 14 (1987) 207
SPAN, 19 (1990) 286; 21 (1991) 261
Spanning tree, 16 (1988/89) 267; 20 (1990) 95; 22 (1991) 265; 24 (1992) 405
Spare capacity, 29 (1996/98) 1857
Spatial indexing and metadata, 29 (1996/98) 1327
Spatial media, 30 (1998) 1933
Spatial reuse, 24 (1992) 15
Spatial sound, 30 (1998) 407
Spatial sound authoring, 30 (1998) 1933
Spatio-temporal resolution pyramid, 29 (1996/98) 1833
Special interest groups, 23 (1991/92) 115
Specialization, 28 (1995/96) 1603
Specialized user interfaces, 29 (1996/98) 1479
Species mapping, 28 (1995/96) 231
Specific language, 14 (1987) 179
Specification, 16 (1988/89) 311; 22 (1991) 35; 28 (1995/96) 1585, 1603, 1659; 29 (1996/98) 271, 357, 397, 437, 473, 745
Specification architecture, 29 (1996/98) 397, 437
Specification development, 18 (1989/90) 335
Specification language, 13 (1987) 75; 14 (1987) 3, 25, 311; 15 (1988) 245; 22 (1991) 61; 23 (1991/92) 325; 27 (1994/95) 1111; 29 (1996/98) 107
Specification process, 27 (1994/95) 1215
Specification styles, 29 (1996/98) 501
Specification template, 29 (1996/98) 437
Speech, 29 (1996/98) 1377
Speech interfaces, 29 (1996/98) 1385
Speech interpolation, 13 (1987) 21

Speech processing, 30 (1998) 1975
Speech recognition, 29 (1996/98) 1385
Speech-enabled Web browsing, 29 (1996/98) 1385
Speedup, 20 (1990) 209
Spiders, 30 (1998) 119
Splitting ratio, 29 (1996/98) 617
Spoken language systems, 29 (1996/98) 1385
Spread spectrum multiple access, 15 (1988) 341
SQL, 28 (1995/96) 1523
Squid, 30 (1998) 1687, 2269
ST2, 28 (1995/96) 351
Stability, 17 (1989) 201; 21 (1991) 399; 29 (1996/98) 2201
Standard attributes, 17 (1989) 263
Standard Generalized Markup Language, 16 (1988/89) 138
Standardisation, 13 (1987) 235; 15 (1988) 27; 17 (1989) 244, 287; 27 (1994/95) 1215; 29 (1996/98) 3, 357; 30 (1998) 309, 1327
Standardized interface, 17 (1989) 37
Standards, 12 (1986) 225; 14 (1987) 123; 15 (1988) 61; 17 (1989) 270, 337; 19 (1990) 95, 339; 21 (1991) 285; 23 (1991/92) 191, 417; 28 (1995/96) 1769; 29 (1996/98) 1367; 30 (1998) 636
Standards Promotion and Application Group (SPAG), 14 (1987) 291
State exploration, 11 (1986) 173
State tours, 15 (1988) 285
State transition, 11 (1986) 297
State-dependent, 27 (1994/95) 45
State-dependent routing, 28 (1995/96) 401
Stateful and stateless, 28 (1995/96) 1345
Stateful information retrieval, 28 (1995/96) 239
Station management, 23 (1991/92) 51
Statistical multiplexing, 20 (1990) 343, 351; 27 (1994/95) 1411; 29 (1996/98) 325, 2053, 2119
Statistical multiplexing scheme, 24 (1992) 321
Statistical Quality-of-Service, 29 (1996/98) 1919
Statistics, 27 (1994/95) 1089; 28 (1995/96) 963, 993; 30 (1998) 551
STDMA, 19 (1990) 11
Steady-state behavior, 12 (1986) 329
Steepest descent method, 20 (1990) 115
STEP, 27 (1994/95) 691; 30 (1998) 1853
Stereoscopy, 29 (1996/98) 1685
Stimulation, 28 (1995/96) 401
STM, 30 (1998) 1475
Stochastic automata networks, 29 (1996/98) 2187
Stochastic process, 13 (1987) 333
Stochastic time, 30 (1998) 901, 925
Stop/retransmission protocol, 20 (1990) 277
Store-and-forward conversion, 16 (1988/89) 55
Strategic planning, 20 (1990) 65; 28 (1995/96) 1481
Strategical telecom planning, 20 (1990) 89
Strategy, 28 (1995/96) 1991
Stratified model, 28 (1995/96) 675
Stream transducers, 28 (1995/96) 1063
Stream-based systems, 29 (1996/98) 107
Streaming applications, 30 (1998) 519
Streaming audio and video, 29 (1996/98) 865
Streaming video, 28 (1995/96) 1547
Strong typing, 28 (1995/96) 1365
Structural stability, 22 (1991) 213
Structure, 14 (1987) 179; 29 (1996/98) 1205
Structure conversion, 27 (1994/95) 831
Structured documents, 27 (1994/95) 831
Structured editing, 28 (1995/96) 1075
Structured graphs, 30 (1998) 11
Structured hypermedia, 28 (1995/96) 1085
Structured partitions, 11 (1986) 367
Structured scenario analysis, 20 (1990) 65
Structuring approach, 27 (1994/95) 789
Structuring techniques, 27 (1994/95) 1263
Student model, 30 (1998) 291
Students, 30 (1998) 716
Style sheets, 28 (1995/96) 3, 1095; 30 (1998) 676, 694
Stylesheet languages, 30 (1998) 225
Subject gateways, 30 (1998) 1479
Subjectivity, 30 (1998) 597
Subnet, 13 (1987) 257
Subscriber access, 14 (1987) 339
Successive packet losses, 20 (1990) 401
Superchannel, 27 (1994/95) 1523
Supercomputer access, 16 (1988/89) 146
Supercomputer interconnection, 16 (1988/89) 135
Supercomputer networks, 22 (1991) 111
Supercomputers, 17 (1989) 257
Supercomputing, 30 (1998) 742
SuperJANET, 25 (1993/94) S111
Super-minicomputers, 17 (1989) 328
Support, 30 (1998) 745
Support environment, 13 (1987) 91
Support of multimedia, 26 (1994/95) S93
Support system for protocol development, 15 (1988) 245
Surface reconstruction, 29 (1996/98) 1737
Surrogate objects, 19 (1990) 105
Surveys, 27 (1994/95) 809; 29 (1996/98) 1367
SWGL, 28 (1995/96) 1105
Switch, 16 (1988/89) 75; 27 (1994/95) 627
Switch architectures, 27 (1994/95) 1567
Switch performance, 27 (1994/95) 611
Switched digital service, 20 (1990) 81
Switched multi-megabit data service, 21 (1991) 239

Switching, 28 (1995/96) 835; 29 (1996/98) 195
Switching fabric, 27 (1994/95) 1399
Switching networks, 20 (1990) 377
Switching nodes, 20 (1990) 333
Switching systems, 28 (1995/96) 603
SWITCHmail, 16 (1988/89) 48
Symmetric and asymmetric encryption, 19 (1990) 196
Symmetric bandwidth balancing (SBB), 24 (1992) 145
Synchronizable test sequences, 30 (1998) 1111
Synchronization, 20 (1990) 209
Synchronization efficiency, 30 (1998) 2373
Synchronized clocks, 27 (1994/95) 1615
Synchronized hypermedia, 30 (1998) 694
Synchronized hypermedia/multimedia, 29 (1996/98) 875
Synchronized multimedia, 30 (1998) 417
Synchronous, 30 (1998) 1707
Synchronous collaboration, 28 (1995/96) 69
Synchronous communication, 11 (1986) 89
Synchronous navigation control, 28 (1995/96) 1207
Synchronous transmission, 23 (1991/92) 119
Synchronous work, 28 (1995/96) 1385
Synchrony, 22 (1991) 35
SYNICS, 15 (1988) 73
Syntax, 203, 24 (1992) 203
Synthesis, 11 (1986) 367
System adaptation, 15 (1988) 73
System capacity, 20 (1990) 101
System engineering, 28 (1995/96) 1629
System state, 12 (1986) 277
Systems analysis, 14 (1987) 365
Systems integration, 15 (1988) 27
Systems management, 16 (1988/89) 167; 17 (1989) 270

Tail distribution, 29 (1996/98) 1919
Tailorability, 30 (1998) 499
TAO, 28 (1995/96) 189
Tariff structures, 16 (1988/89) 24
Tariffs, 14 (1987) 331; 17 (1989) 328
Task description, 14 (1987) 187
Task interdependencies, 28 (1995/96) 799
Task-based learning, 30 (1998) 707
Tcl, 28 (1995/96) 1355; 30 (1998) 713
Tcl/Tk, 27 (1994/95) 1105
TCP, 24 (1992) 243; 27 (1994/95) 1633; 28 (1995/96) 25
TCP/IP, 17 (1989) 337, 371; 22 (1991) 347; 23 (1991/92) 11, 47, 171, 177, 185; 25 (1993/94) S25; 27 (1994/95) 479; 29 (1996/98) 2091; 30 (1998) 1617
TCP/IP congestion control, 30 (1998) 1763
TDM, 23 (1991/92) 129
TDMA, 21 (1991) 285; 24 (1992) 119
TDMA protocol, 11 (1986) 219
TDMA/CSMA, 18 (1989/90) 1
Teachers, 30 (1998) 745
Teaching, 27 (1994/95) 871
Teaching materials, 26 (1994/95) S93
Teaching media, 29 (1996/98) 1787
Technical and office protocols (TOP), 14 (1987) 291
Technical graphics, 30 (1998) 1981
Technical implementation, 28 (1995/96) 575, 1953
Technical reports, 28 (1995/96) 247
Technological aspects, 14 (1987) 365
Technology Acceptance Model (TAM), 30 (1998) 629
Technology and policy, 28 (1995/96) 1769
Technology selection, 20 (1990) 89
Telebanking, 28 (1995/96) 199
Telecommunication networks, 13 (1987) 269; 14 (1987) 339; 15 (1988) 303
Telecommunication policy, 14 (1987) 245; 28 (1995/96) 1769
Telecommunication regulation, 28 (1995/96) 1769
Telecommunication service, 28 (1995/96) 1961
Telecommunication standards, 17 (1989) 244
Telecommunication systems, 16 (1988/89) 311
Telecommunications, 14 (1987) 207, 259; 28 (1995/96) 1769; 30 (1998) 1389
Telecommunications and supercomputers, 17 (1989) 328
Telecommunications software, 13 (1987) 119
Teleconference, 14 (1987) 231
Telediagnostics, 28 (1995/96) 1971
Telelearning, 28 (1995/96) 1873; 29 (1996/98) 1787
Telematics, 14 (1987) 245
Telephone features, 29 (1996/98) 501
Telephone switches ALOHA, 20 (1990) 179
Telephone systems, 21 (1991) 53; 29 (1996/98) 501
Telepresence, 29 (1996/98) 1519
Telerobotics, 28 (1995/96) 209
Teleservices; 14 (1987) 339; 26 (1994/95) S163
Teleshopping, 27 (1994/95) 691
Teleteaching, 28 (1995/96) 1873; 29 (1996/98) 1787
Teleteaching environments, 29 (1996/98) 1787
Teleteaching infrastructure, 30 (1998) 1707
Teleteaching media channels, 29 (1996/98) 1787
Teleteaching workspaces, 29 (1996/98) 1787
Teletex, 14 (1987) 283
Teletext systems, 12 (1986) 107
Tele-training, 30 (1998) 1447
Telework, 29 (1996/98) 1479
Temperature, 28 (1995/96) 189
Templates, 30 (1998) 239

Temporal constraints, 29 (1996/98) 759
Temporal logic, 24 (1992) 203
Temporal markup languages, 30 (1998) 417
TEN-34, 28 (1995/96) 1991; 30 (1998) 1663
Tensorial calculus, 29 (1996/98) 1695
Terminal adaptation, 20 (1990) 57
Terminal management, 14 (1987) 305
Terminal services, 19 (1990) 105
Terminal support network, 11 (1986) 383
Termination strategy, 17 (1989) 175
Terrain, 29 (1996/98) 1587
Terrestrial return path, 30 (1998) 1543
Test, 18 (1989/90) 65; 23 (1991/92) 11
Test and measurement system, 30 (1998) 1697
Test architectures, 11 (1986) 277; 17 (1989) 111; 18 (1989/90) 203
Test case generation, 29 (1996/98) 49
Test generation, 28 (1995/96) 1669
Test methodology, 18 (1989/90) 203
Test methods, 14 (1987) 79
Test purpose, 28 (1995/96) 1669
Test retrieval, 27 (1994/95) 985
Test selection, 27 (1994/95) 1111
Test sequence generation, 27 (1994/95) 591; 30 (1998) 1111
Test sequences, 17 (1989) 111; 28 (1995/96) 1669
Test suite, 16 (1988/89) 243; 24 (1992) 65
Test suite design, 14 (1987) 79
Test suite design and development, 18 (1989/90) 19
Test systems, 11 (1986) 277
Testbeds, 23 (1991/92) 153; 26 (1994/95) S85
Testing, 11 (1986) 183; 15 (1988) 285; 22 (1991) 51; 27 (1994/95) 1111
Testing theory, 29 (1996/98) 3; 81
Tetrahedral decomposition, 29 (1996/98) 1625
Text Encoding Initiative (TEI) header, 27 (1994/95) 985
Text mail, 14 (1987) 339
Text retrieval, 28 (1995/96) 1175
Text search, 29 (1996/98) 1181
Textile inspection, 30 (1998) 1887
The directory, 17 (1989) 305
The service ethic, 19 (1990) 158
Theory, 15 (1988) 189
Third moment influence, 20 (1990) 285
THORN, 16 (1988/89) 143
Threat, 17 (1989) 315
Three-dimensional user interfaces, 28 (1995/96) 1559
Threshold, 29 (1996/98) 781
Throughput, 11 (1986) 43, 337; 12 (1986) 39; 18 (1989/90) 31; 21 (1991) 399; 27 (1994/95) 611; 29 (1996/98) 1933
Throughput efficiency, 23 (1991/92) 229
Throughput measurement, 20 (1990) 3
Ticker, 30 (1998) 721
Time, 29 (1996/98) 271
Time and synchronisation, 29 (1996/98) 745
Time division multiplexing, 21 (1991) 239
Time division switching, 20 (1990) 383
Time parallel, 29 (1996/98) 617
Time scales, 20 (1990) 391; 29 (1996/98) 2103
Time transparency, 25 (1993/94) S99
Time-complexity, 21 (1991) 121
Timed automata, 29 (1996/98) 107
Timed Petri nets, 29 (1996/98) 745
Timed testing, 29 (1996/98) 107
Time-division circuit switching, 20 (1990) 377
Timed-token protocol, 29 (1996/98) 249
Timeout distribution, 13 (1987) 15
Timer-based connection-management protocol, 27 (1994/95) 1615
Time-scales, 29 (1996/98) 293
Time-warp, 20 (1990) 209
TINA-C, 27 (1994/95) 1247
Tk, 28 (1995/96) 1355
tkHTML, 27 (1994/95) 823
TLC networks, 29 (1996/98) 2165
To read critically, 14 (1987) 179
TOGA-TAO, 28 (1995/96) 189
Token, 13 (1987) 235
Token bank, 24 (1992) 81
Token passing networks, 22 (1991) 193
Token ring, 11 (1986) 121; 22 (1991) 287
Token ring network; 11 (1986) 89; 24 (1992) 45; 29 (1996/98) 249
Token rotation time, 29 (1996/98) 249
Token-passing bus protocol, 15 (1988) 177
TOMAS, 17 (1989) 37
Tongue, 30 (1998) 2037
Toolkit, 21 (1991) 175; 27 (1994/95) 765; 28 (1995/96) 1291; 29 (1996/98) 1531
Tools, 27 (1994/95) 809; 28 (1995/96) 963, 1283
Tools and browsers, 27 (1994/95) 879
Tools assessment, 28 (1995/96) 1703
Tools classification framework, 28 (1995/96) 1703
Tools requirements, 28 (1995/96) 1703
Toolset, 13 (1987) 91
Topological design, 18 (1989/90) 133; 20 (1990) 223; 27 (1994/95) 567
Topologies, 13 (1987) 275; 15 (1988) 329
Topology broadcast, 16 (1988/89) 179
Toroidal network, 27 (1994/95) 1399
Touchscreen, 30 (1998) 739
Tourist, 30 (1998) 1991
TP0/X.25, 17 (1989) 300
TP4/IP, 17 (1989) 300
Trace-driven simulation, 29 (1996/98) 997
Tracking, 30 (1998) 2047
Traffic, 22 (1991) 83; 30 (1998) 2123
Traffic accidents, 30 (1998) 1907

Traffic analysis, 28 (1995/96) 37
Traffic capacity and performance, 28 (1995/96) 603
Traffic characteristics, 22 (1991) 143
Traffic contract, 27 (1994/95) 703
Traffic control, 11 (1986) 203; 14 (1987) 167; 20 (1990) 143, 351, 369; 27 (1994/95) 85
Traffic data processing, 14 (1987) 167
Traffic descriptors, 29 (1996/98) 555
Traffic design, 20 (1990) 369
Traffic enforcement, 27 (1994/95) 1349
Traffic engineering, 30 (1998) 1327
Traffic estimation, 20 (1990) 203
Traffic information displays, 14 (1987) 167
Traffic integration, 30 (1998) 2359
Traffic management, 20 (1990) 127; 28 (1995/96) 635, 1723; 29 (1996/98) 583; 30 (1998) 1735, 1749, 1775, 1793, 1811, 2293
Traffic management system, 14 (1987) 167
Traffic measurement in networks, 23 (1991/92) 73
Traffic measurements, 15 (1988) 87; 26 (1994/95) S139; 30 (1998) 1327
Traffic mixture, 20 (1990) 231
Traffic modeling, 29 (1996/98) 293
Traffic modelling, 20 (1990) 285, 323; 27 (1994/95) 1175; 30 (1998) 733
Traffic models, 30 (1998) 1327
Traffic optimization, 30 (1998) 981
Traffic policing, 29 (1996/98) 165
Traffic routing, 11 (1986) 203
Traffic shaping, 28 (1995/96) 453; 29 (1996/98) 165, 595, 2119
Traffic simulation, 30 (1998) 821
Traffic smoothness, 29 (1996/98) 2119
Traffic source characterization, 29 (1996/98) 811
Traffic theory, 20 (1990) 333
Trails, 30 (1998) 624, 1475
Training, 23 (1991/92) 157; 30 (1998) 301, 679, 745
Transaction, 29 (1996/98) 1809
Transaction cost economics, 28 (1995/96) 1481
Transaction processing, 29 (1996/98) 1769
Transactional integrity, 29 (1996/98) 1281
Transdisciplinary methodology, 14 (1987) 271
Transfer syntax, 14 (1987) 297; 23 (1991/92) 393
Transformation language, 28 (1995/96) 1075
Transient analysis, 15 (1988) 87; 22 (1991) 277
Transient behaviour, 20 (1990) 391
Transient performance, 29 (1996/98) 1999
Transition, 17 (1989) 362; 19 (1990) 246
Transition systems, 29 (1996/98) 49
Transition to OSI, 19 (1990) 240
Transition tours, 22 (1991) 7
Translation of QoS, 28 (1995/96) 1753
Translation servers, 27 (1994/95) 927
Transliteration, 27 (1994/95) 429
Transmission error, 12 (1986) 291
Transmission infrastructure, 18 (1989/90) 143
Transpac, 12 (1986) 139
Transparent call set-up, 23 (1991/92) 57
Transport connection, 11 (1986) 353
Transport end-to-end connection, 13 (1987) 257
Transport layer protocol, 29 (1996/98) 675
Transport protocol data unit (TPDU), 11 (1986) 353
Transport protocols, 11 (1986) 277; 16 (1988/89) 383; 18 (1989/90) 335
Transport relay, 23 (1991/92) 47
Transport service, 12 (1986) 159; 18 (1989/90) 31
Transport service bridge, 23 (1991/92) 47
Tree algorithm, 17 (1989) 201
Tree and tabular combined notation (TTCN), 18 (1989/90) 203
Tree logic, 14 (1987) 179
Tree topology, 17 (1989) 89, 101
Tree-forming, 16 (1988/89) 267
Trends, 14 (1987) 339
Triangular density, 13 (1987) 15
Triangulation, 29 (1996/98) 1587
Trojan horse, 17 (1989) 141
True concurrency, 30 (1998) 925
Trunk reservation, 20 (1990) 81, 127
Trunking, 16 (1988/89) 187
Trust, 26 (1994/95) S149
Trust management, 29 (1996/98) 953
Trusted operating system, 29 (1996/98) 927
Trusted partner relation, 17 (1989) 315
Trusted third party, 28 (1995/96) 1197
TTCN, 23 (1991/92) 417; 29 (1996/98) 107
TUBA, 25 (1993/94) S25
Tunnel, 30 (1998) 531
Tunneling, 29 (1996/98) 137
Twisted pair, 22 (1991) 287
Two-cable Ethernet, 27 (1994/95) 1545
Two-phase commit protocols, 17 (1989) 175
Types, 28 (1995/96) 1603

Ubiquitous computing, 28 (1995/96) 1431
Ubiquitous information access, 28 (1995/96) 1431
Ubiquity, 28 (1995/96) 53
UBR + , 29 (1996/98) 2021
UIO sequences, 30 (1998) 1277
UK, 23 (1991/92) 163
UK Higher Eduation, 26 (1994/95) S93
Understanding, 30 (1998) 1841, 1875
Undetected packet misdelivery, 12 (1986) 291
Unfairness, 24 (1992) 145
Unicast, 22 (1991) 165
Unicode, 30 (1998) 271
Unidirectional dual-bus, 29 (1996/98) 1933

Uniform Resource Citation (URC), 27 (1994/95) 985
Uniform Resource Identifiers, 28 (1995/96) 535
Unique Input Output (UIO) sequence, 27 (1994/95) 591
Unique input/output sequences, 15 (1988) 285; 22 (1991) 7
UNISON project, 16 (1988/89) 129
Universal access, 12 (1986) 225
Universal design, 29 (1996/98) 1479
Universal portable digital communication, 20 (1990) 455
University, 30 (1998) 309
University of Geneva, 23 (1991/92) 79
UNIX mail, 15 (1988) 73
Unpredictability, 24 (1992) 145
Unreliable systems, 24 (1992) 203
Unshared feedback errors, 18 (1989/90) 275
URI broadcasting, 28 (1995/96) 535
URL, 27 (1994/95) 773
URL ordering, 30 (1998) 161
URN, 27 (1994/95) 773
URN2URC management, 28 (1995/96) 535
U.S. GOSIP, 19 (1990) 270
U.S. policy, 23 (1991/92) 37
Usability, 29 (1996/98) 1489
Usability engineering, 28 (1995/96) 179
Usage based accounting, 30 (1998) 541
Usage statistics, 30 (1998) 2211
Usage-based pricing, 28 (1995/96) 257
USC, 28 (1995/96) 209
Use case, 30 (1998) 1045
Useful service time, 20 (1990) 425
Use-it-or-lose-it (UILI), 30 (1998) 2293
User affiliation, 16 (1988/89) 299
User and application interfaces, 28 (1995/96) 953
User feedback, 29 (1996/98) 1217
User interface, 14 (1987) 283; 15 (1988) 73; 27 (1994/95) 1027; 28 (1995/96) 53, 543, 1307; 29 (1996/98) 1317, 1385, 1467, 1519; 30 (1998) 149, 499, 721, 1491
User Interface Description Language (IDLE), 27 (1994/95) 927
User interface design, 27 (1994/95) 801; 28 (1995/96) 179; 30 (1998) 1933
User interface layout, 28 (1995/96) 1291
User interfacing, 29 (1996/98) 1685
User modeling, 27 (1994/95) 1065
User modelling, 30 (1998) 33, 666
User network requirements, 16 (1988/89) 146
User preference, 29 (1996/98) 1447
User profiles, 30 (1998) 663
User support, 17 (1989) 348; 19 (1990) 328, 335; 30 (1998) 1637
User testing, 28 (1995/96) 179
User virtual machine, 15 (1988) 73
User-centered navigation, 30 (1998) 663
User-information services, 16 (1988/89) 161
User-network interface, 14 (1987) 339
Users, 30 (1998) 2123
Users representation, 14 (1987) 245
USMARC format, 27 (1994/95) 985

Valid closed path, 28 (1995/96) 1831
Validation, 11 (1986) 183; 24 (1992) 219; 28 (1995/96) 1283, 1659; 30 (1998) 730
Value added services, 14 (1987) 339; 18 (1989/90) 143
Value chain analysis, 28 (1995/96) 1481
Value of information, 28 (1995/96) 1481
Variable bit rate, 20 (1990) 435
Variable length message, 12 (1986) 311
VBR, 29 (1996/98) 2103
VBR MPEG-2, 29 (1996/98) 2021
VBR service, 29 (1996/98) 1969
VENUS, 17 (1989) 354
Verification, 13 (1987) 119; 24 (1992) 203, 219; 28 (1995/96) 1659
Versioning, 30 (1998) 337
Vic, 30 (1998) 2327
Vicinity, 30 (1998) 710
Video, 28 (1995/96) 411; 30 (1998) 672, 2047
Video analysis, 29 (1996/98) 887
Video coding, 28 (1995/96) 563
Video communication, 14 (1987) 339
Video conference, 26 (1994/95) S139
Video conferencing, 19 (1990) 286; 21 (1991) 261, 347; 28 (1995/96) 269; 30 (1998) 1649
Video on Web, 29 (1996/98) 887
Video page, 14 (1987) 179
Video smoothing, 29 (1996/98) 2053
Video traffic modeling, 29 (1996/98) 2053
Video-mediated communication, 28 (1995/96) 491
Videotex, 14 (1987) 179; 28 (1995/96) 199
Videotex system, 16 (1988/89) 299
Vidio-on-demand, 22 (1991) 155; 30 (1998) 431, 1467
View-and-markup tools, 28 (1995/96) 1539
Viewpoint models, 27 (1994/95) 1215
Views, 28 (1995/96) 1243
Virtual actors, 29 (1996/98) 1601
Virtual call, 11 (1986) 287
Virtual channel, 11 (1986) 287; 28 (1995/96) 401
Virtual circuit, 20 (1990) 425; 28 (1995/96) 401
Virtual circuit routing, 12 (1986) 27
Virtual circuits, 24 (1992) 387
Virtual classroom, 27 (1994/95) 897, 905
Virtual connection, 28 (1995/96) 401
Virtual documents, 27 (1994/95) 739; 28 (1995/96) 1063

Virtual environments, 29 (1996/98) 1519, 1685; 30 (1998) 1717
Virtual infrastructure, 28 (1995/96) 1769
Virtual life, 29 (1996/98) 1601
Virtual manufacturing device (VMD), 21 (1991) 357
Virtual meeting room, 28 (1995/96) 491
Virtual multiple data link, 23 (1991/92) 229
Virtual overlay network, 29 (1996/98) 797
Virtual path, 20 (1990) 323, 391; 25 (1993/94) S135; 28 (1995/96) 391
Virtual reality, 28 (1995/96) 1457; 29 (1996/98) 1655; 30 (1998) 1209, 1907, 1923
Virtual reality environments, 30 (1998) 1933
Virtual route, 28 (1995/96) 401
Virtual Source/Virtual Destination (VS/VD), 30 (1998) 1811
Virtual terminal, 14 (1987) 323; 23 (1991/92) 101
Virtual terminal classification, 16 (1988/89) 357
Virtual terminal protocol, 14 (1987) 305; 16 (1988/89) 357; 17 (1989) 157
Virtual terminal service, 16 (1988/89) 357
Virtual worlds, 29 (1996/98) 1519
Virus, 17 (1989) 315; 22 (1991) 347
Visibility, 29 (1996/98) 1531
Visual inspection, 30 (1998) 1887
Visual languages, 22 (1991) 61
Visual realism, 29 (1996/98) 1727
Visual simulators, 29 (1996/98) 1705
Visualization, 22 (1991) 103; 28 (1995/96) 993, 1857; 29 (1996/98) 1269, 1751; 30 (1998) 626, 2131
Visualization environments, 22 (1991) 111
VLSI, 24 (1992) 109
VLSI switch, 27 (1994/95) 611
VLSI: Switch architecture, 28 (1995/96) 1791
VMNET, 19 (1990) 312
Vocabulary of user, 30 (1998) 669
Voice and data integration, 23 (1991/92) 125
Voice and data networks, 13 (1987) 291
Voice data networks, 11 (1986) 219
Voice mail, 14 (1987) 339
Voice quality control, 29 (1996/98) 343
Voice traffic modeling, 27 (1994/95) 1411
Voice-data integration, 13 (1987) 21; 21 (1991) 41; 27 (1994/95) 1457, 1523; 29 (1996/98) 335
Voice/data protocols, 18 (1989/90) 1
Voice-over-IP, 30 (1998) 407
Volume rendering, 22 (1991) 111; 30 (1998) 2003
Volumetric morphing, 29 (1996/98) 1625
VP protection switching, 29 (1996/98) 1857
VRML, 28 (1995/96) 1539, 1559, 1857; 29 (1996/98) 1601, 1611; 30 (1998) 43, 594, 626, 1833
VRML 97, 30 (1998) 1961
VT protocol, 17 (1989) 352

W3 servers, 28 (1995/96) 1053
W3C, 28 (1995/96) 13
WAIS, 27 (1994/95) 953, 1027
Waiting time, 20 (1990) 297
WAN, 17 (1989) 279; 25 (1993/94) S17, S111, S135; 26 (1994/95) S29
Waste-free, 29 (1996/98) 221
Wavelength division multiplexing, 18 (1989/90) 323; 28 (1995/96) 371; 29 (1996/98) 1901; 30 (1998) 2349
Wavelength-division optical network, 20 (1990) 223
WBT, 30 (1998) 634
WDM, 29 (1996/98) 1901
WDM rings, 30 (1998) 1065
WDM star network, 28 (1995/96) 773
Weak consistency, 29 (1996/98) 1007
Web, 27 (1994/95) 1097; 29 (1996/98) 965, 1007, 1357, 1405, 1777; 30 (1998) 1263, 2245
Web application maintenance, 29 (1996/98) 1429
Web applications, 28 (1995/96) 13, 941; 29 (1996/98) 1497, 1531; 30 (1998) 704
Web authoring, 28 (1995/96) 1015; 30 (1998) 519
Web automation, 30 (1998) 119
Web based learning, 30 (1998) 718
Web browser, 28 (1995/96) 1493
Web browser support tool, 28 (1995/96) 85
Web browsing, 30 (1998) 688
Web caching, 30 (1998) 2113, 2131, 2169, 2193
Web caching architectures, 30 (1998) 2093
Web delivery, 30 (1998) 1981
Web design, 29 (1996/98) 1489
Web development, 30 (1998) 631
Web ethics, 28 (1995/96) 127
Web graph, 30 (1998) 469
Web links, 30 (1998) 469
Web page, 28 (1995/96) 1493
Web page generating programs, 29 (1996/98) 1507
Web page sampling, 30 (1998) 379
Web search, 29 (1996/98) 1157
Web searching, 30 (1998) 119
Web server, 28 (1995/96) 1493; 29 (1996/98) 1019
Web server cooperation, 29 (1996/98) 1029
Web server extension, 28 (1995/96) 99
Web service engineering, 30 (1998) 281
Web site, 28 (1995/96) 1493; 30 (1998) 85
Web spiders, 28 (1995/96) 127
Web technologies, 30 (1998) 660
Web tools, 29 (1996/98) 1655
Web traffic, 28 (1995/96) 1397

Web traversal robot, 28 (1995/96) 99
Web visualization, 30 (1998) 469
Web-based applications, 30 (1998) 239
Web-based business, 28 (1995/96) 1481
Web-based computing, 30 (1998) 742
Web-based education, 30 (1998) 291
Web-based information system, 29 (1996/98) 1167
Web-based training, 30 (1998) 634
Webcasting, 30 (1998) 443, 607, 721, 1637
WebMagic, 27 (1994/95) 823
WebWriter architecture, 29 (1996/98) 1507
WEP, 17 (1989) 358
White pages directory, 28 (1995/96) 551
Whois, 30 (1998) 1571
Wide area backbone, 16 (1988/89) 135; 17 (1989) 376
Wide area network (WAN), 18 (1989/90) 115; 23 (1991/92) 253
Wide area networks, 21 (1991) 347; 25 (1993/94) S105; 28 (1995/96) 811
Wide-area ATM networks, 29 (1996/98) 373
Wideband ISDN, 20 (1990) 333
Window flow control, 28 (1995/96) 873
Windowing, 28 (1995/96) 835
Windowing capability, 16 (1988/89) 357
Windowing policies, 30 (1998) 1083
Windows, 23 (1991/92) 101
Winds, 28 (1995/96) 189
Wireless, 28 (1995/96) 53
Wireless ATM, 29 (1996/98) 2165
Wireless ATM networks, 29 (1996/98) 2187
Wireless ATM simulation, 29 (1996/98) 2067
Wireless communication, 15 (1988) 203
Wireless data communications, 28 (1995/96) 283
Wireless LANs, 28 (1995/96) 283
WLIS, 28 (1995/96) 921
Work analysis, 14 (1987) 187
Work flow management, 30 (1998) 607
Workflow, 28 (1995/96) 1501; 30 (1998) 479
Workflow distribution model, 28 (1995/96) 1961
Workflow management systems, 28 (1995/96) 1961
Workgroup computing, 23 (1991/92) 91
Workgroups, 27 (1994/95) 739
Workload characterization, 27 (1994/95) 1193
Workstations, 14 (1987) 199; 17 (1989) 256, 312
World Wide Web, 26 (1994/95) S39, S55, S71, S85; 28 (1995/96) 25, 137, 161, 167, 231, 247, 963, 981, 1063, 1105, 1149, 1175, 1197, 1255, 1493, 1891; 29 (1996/98) 841, 875, 927, 977, 987, 1019, 1075, 1129, 1167, 1193, 1217, 1225, 1257, 1281, 1305, 1385, 1395, 1429, 1447, 1457, 1489, 1507, 1635, 1751; 30 (1998) 53, 107, 638, 699, 747, 1717, 1981, 2059
World Wide Web caching, 30 (1998) 2179
World Wide Web performance, 30 (1998) 2253
World Wide Web (WWW), 30 (1998) 607, 1637
Worldwide intelligent network, 20 (1990) 81
World-Wide Web, 27 (1994/95) 739, 789, 1098
World-Wide Web (W3), 27 (1994/95) 927
World-Wide Web (WWW), 27 (1994/95) 1055
Worm, 17 (1989) 141, 315; 22 (1991) 347
Worst-case traffic, 28 (1995/96) 1739
WPS, 26 (1994/95) S39
WPS clients, 26 (1994/95) S39
WPS infrastructure, 26 (1994/95) S39
WWW, 26 (1994/95) S39, S55; 27 (1994/95) 781, 871, 1003, 1097, 1105; 28 (1995/96) 3, 25, 53, 69, 77, 85, 155, 199, 221, 1015, 1105, 1157, 1269, 1979; 30 (1998) 431, 601, 626, 739, 1531, 1853, 1981, 1991, 2223
WWW browser, 28 (1995/96) 1539
WWW caching, 28 (1995/96) 893
WWW education, 28 (1995/96) 1219; 30 (1998) 707
WWW extension, 26 (1994/95) S157
WWW harvesting, 30 (1998) 173
WWW search, 29 (1996/98) 1137
WWW servers, 28 (1995/96) 1233; 30 (1998) 327
WWWeasel, 27 (1994/95) 823
WWW-to-DBMS links, 29 (1996/98) 1291

X Window system, 23 (1991/92) 101
X Windows, 17 (1989) 312
X.121, 17 (1989) 47
X.122, 17 (1989) 47
X.213, 17 (1989) 47
X.25, 11 (1986) 287; 14 (1987) 339; 16 (1988/89) 119, 395; 17 (1989) 371; 19 (1990) 181, 234, 240; 20 (1990) 3; 21 (1991) 333; 23 (1991/92) 47, 125; 24 (1992) 243; 25 (1993/94) S25
X.25 networks, 14 (1987) 159
X.25 packet layer protocol, 21 (1991) 307
X.25 packet layer protocol (X.25/PLP), 23 (1991/92) 171
X.25 packet switching, 16 (1988/89) 34; 19 (1990) 224; 21 (1991) 23
X.25 products, 16 (1988/89) 31
X.25 service, 17 (1989) 346
X.25 technology, 19 (1990) 186
X.400, 14 (1987) 123, 137, 323; 15 (1988) 55; 16 (1988/89) 8, 48, 75, 153; 17 (1989) 263, 312, 358; 19 (1990) 234, 275; 23 (1991/92) 87; 24 (1992) 65; 25 (1993/94) S3; 28 (1995/96) 1979
X.400 message handling service, 27 (1994/95) 691
X.400-series recommendations, 14 (1987) 339

X.500, 16 (1988/89) 161; 17 (1989) 305, 350; 19 (1990) 261; 21 (1991) 17; 23 (1991/92) 87, 111, 163; 25 (1993/94) S3; 26 (1994/95) S39; 28 (1995/96) 543, 551, 1939
X.500 directory service, 26 (1994/95) S129; 27 (1994/95) 691
X.509 certificate, 26 (1994/95) S187
X.700 management, 28 (1995/96) 1901
X.75, 16 (1988/89) 187; 25 (1993/94) S25
XLL, 30 (1998) 616
XML, 29 (1996/98) 1115; 30 (1998) 11, 225, 239, 251, 389, 676, 713
XSL, 30 (1998) 225
XTP, 23 (1991/92) 139
XTV, 27 (1994/95) 849

Yellow Pages, 28 (1995/96) 1939

Z39.50, 28 (1995/96) 239; 30 (1998) 612, 1185